



KAZ MICHAEL KARL

CONTACT

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GitHub : [Code Sample](https://github.com/kazmichaelkarl)

ChatGPT : [The AI Agent of Kaz](https://chat.openai.com/share/034a2a00-034a-4a00-8000-000000000000)

SKILLS

- **Mighty in Full Stack Web Development:**

I am a master of front end, middleware, and back end web development. This includes all four major stacks: LAMP/WAMP, .NET, and MEAN, and even Java. Because this always includes JavaScript, that is my strongest technology, all the way up to ECMAScript 2023, and most major libraries/frameworks (see below). I am also unusual in my mastery of browser extension development

- **Machine Learning / AI Developer:**

I've been involved in ML theory for twenty years, and have recently been more hands-on, developing LLM agents, and more advanced AI systems.

- **Artistic UX / UI / Web/ Graphic Design:**

Adobe CC: Especially Photoshop, but also Illustrator, After Effects, and the rest. GIMP, SEO/search engine optimization, wireframes, full UI/UX development

- **Immune to:**

Poison ivy and bee stings, and able to hold my breath for 150 seconds

- **Management Skills of Wisdom and Truth:**

Team leadership, Mentoring, requirement gathering, proposal writing, full lifecycle experience / SDLC, agile (including scrum and XP)

- **Horrible:**

...in around eight languages,

Professional Summary

- 20+ years of professional graphic design and hands-on web development experience, and still constantly picking up new technologies, ergo the large skillset.
- Mostly consulting with high-profile, name-brand, mission-critical Enterprise projects, including design, development, social media and mobile web. In other words, a jack of all trades; an encyclopedic webster.
- Verbal and social skills unusual for a techie, along with tech / team lead experience, mentoring, client soft skills, requirements gathering, proposal writing, RFP and RFI development, technical writing, et cetera, and therefore also open to managerial opportunities.

Work History

AI Developer / Web, 12/2024 to 10/2025

Cricket Wireless / AT&T via Metasys - Atlanta (on site, contract)

- Design and develop an unusually advanced Agentic AI system that uses the ChatGPT API to aggregate and summarize hundreds of thousands of user feedbacks based on spontaneous user questions. Built proof of concept system in Python on Google Colab with Weavite. Developed release version in Angular with Transformers.js. System converts feedbacks to embeddings, clustered them by semantic meaning and sentiment with DBSCAN, and feeds the chunks to an LLM with few-shot models, along with prompts generated by the model itself in an n-tier process.
- Maintain and develop AngularJS applications, to gradually transition them to modern Angular.
- JavaScript, Python, CSS, HTML, SQL, GraphQL, Angular, Bootstrap, code refactoring, REST API development, node.js, pdf-lib, SheetJS, Azure administration, ROUGE-N, LangChain, OpenAI APIs, Agentic AI, MS SQL Server, Postman, Docker, IIS, Photoshop, Git repo administration, Pytorch, TensorFlow, scikit-learn

Senior Web Developer/Graphic Artist, 01/2024 to 10/2024

The Graphic Details – National (remote, freelance)

- Freelance work for various small to medium-size clients, including web development, graphic design, programming, photo restoration, social media development, et cetera.
- Adobe Photoshop/Illustrator, WordPress, JavaScript, React, PHP, HTML, CSS, jQuery, RESTful API, MySQL/MariaDB, Bootstrap, SEO, ChatGPT, Midjourney, Git repo management, requirements gathering, proposal writing

Full Stack Developer/Architect, 11/2021 to 01/2024

Cox Communications via Accenture - Atlanta (remote, contract)

- Design and develop greenfield Risk and Issue reporting dashboard for asset tracking, using Bootstrap and React, as well as hand-coded JavaScript. Improve and maintain existing R&I forms and interface. These involved a full lifecycle of requirement gathering, proposals, and demo with stakeholders and managers.
- Also maintain and edit SharePoint data management system, including Power Apps and Automate. Maintain and develop brownfield Excel data

including German, Spanish, French, Italian, Latin, and Sanskrit. Conversely, replete with a sesquipedalian lexicon in English...but more importantly, skilled at internationalization of websites.

- **Super Social Media Development:**

WordPress, Facebook, X-Twitter, and Google APIs and account management.

- **Master of Mobile Development:**

Android, iPhone/iOS, Sencha, Ionic, PhoneGap, Cordova

- **Walk the Earth:**

Meet people, get into adventures. Well, I *have* studied Shaolin kung fu

- **Dm of Data Management:**

A part of being truly full-stack is being competent with database administration, which I am.

- **Natural Intelligence with Machine Learning:**

Involved in AI development theory for twenty years, recent expertise with model prompting, programming.

TECHNOLOGIES

Programming Languages:

JavaScript (hand-coded ECMAScript 2023) (20 years)

PHP (Laravel, Cake, WordPress, Drupal) (8 years)

.NET (C#, ASP, Entity Framework) (7 years)

Node.js / TypeScript (4 years)

SQL (stored procedures) (20 years)

VB, VBA, VBScript (5 years)

Java (Spring Boot, JPA) (4 years)

Perl (4 years)

Python, Golang, Rust

Object Oriented and Functional Programming

RegEx

Web:

HTML5 (20 years)

CSS3 (including the newest modules) (20 years)

AJAX / JSON (16 years)

SOAP / ReST Services (12 years)

entry and reporting systems with VBA and macros. Light DBA with MS SQL Server, plus extensive stored procedure programming and documentation of processes. Light administration of Azure VMs, including server migration. Light Jira administration, especially of Kanban interface on scrum project.

- JavaScript, PHP, CSS, HTML, SQL, React, Bootstrap, jQuery, ExcelJS, code refactoring, ReST API development, node.js, SharePoint, Jira, ChatGPT, MS SQL Server, Azure/Kubernetes, IIS, Photoshop, Git repo administration

Front-End Development Lead, 01/2021 to 07/2021

State of Wisconsin, via Deloitte - Madison, WI (remote, contract)

- Helped lead front end development for Wisconsin state website. Provided essential leadership/mentoring to a dozen Salesforce developers who did not fully understand CSS and JavaScript.
- Hand-coded some pure JavaScript functionality to provide features missing from the Salesforce framework, including a purely client-side PDF creation system to meet NIST CSF security requirements for documents, using pdf-lib. Git repo administration. Fully realized UI development based on very precise Figma wireframes. Scrum (agile) project
- JavaScript, CSS, HTML, SQL, node.js, Visual Studio Code, Salesforce, Lightning Web Components, Kreator, pdf-lib, NIST 800-series, Git repo administration, WCAG/508 compliance, Figma.

Lead Software Engineer, 05/2019 to 12/2020

Labor Staffing Inc. - Atlanta, GA (hybrid, contract/freelance)

- Created a mobile and web-based app, to hire temp workers for major national staffing company, using JavaScript/Bootstrap, C# with ASP.NET, MS SQL Server, and other technologies, including coding in PHP and React with WordPress on secondary site, coding and leading a small team. Also data mining, refactoring, SEO, et cetera. This role required regular direct interface with management and president of company.
- ASP.NET, C#, HTML, JavaScript/ECMAScript 6, Bootstrap / 960.gs, Cordova/Ionic, SVN/Subversion, CSS, node.js, ReSTful development, OAuth 2.0, ReSTful API development, SaaS, ASP.NET Core, C#, Entity Framework, MS SQL Server administration, extensive stored procedure development, Photoshop and Illustrator, Subversion, Postman, DocuSign and PandaDoc APIs, Postman, Docker, Git repo administration

Lead Software Developer, 04/2020 to 07/2020

Lenovo - Raleigh, NC (remote, contract)

- Hand-code a Chrome extension to allow Chromebooks to protect school laptops that were sent home, by detecting and blocking dangerous or adult websites using a secure API. Mostly an independent role, gathering requirements by direct consultation with the stakeholders, then going off to produce the product...to thunderous applause.
- Chrome extension APIs, HTML, hand-coded JavaScript, ReSTful APIs, OAuth 2.0, CSS, Photoshop, Git repo administration

Head Developer, 11/2016 to 01/2020

YLDist - Saint Louis, MO (remote, long-term)

- Support and expand WordPress multisite servers, hosting around ten thousand websites for YLDist's customers. Program custom code with PHP and JavaScript, manage plugins, e-commerce with PayPal and WooCommerce, MySQL database, Apache services and site management, also overseeing 1 to 2 other developers. Some interface and graphic design. Direct interaction with stakeholders and the owner of the company.
- Heavy PHP and also refactoring, HTML, hand-coded JavaScript, jQuery, CSS, SaaS, some perl, shell scripting, OAuth 2.0, SEO, heavy Photoshop, some Illustrator, WCAG/508 compliance, full stack LAMP, Shopify, Git repo administration, MySQL/MariaDB

React (Native, Redux, Next.js) (3 years)
E-Commerce (Shopify / WooCommerce)
LAMP / WAMP (8 years)
Bootstrap / jQuery (8 years)
OAuth / OpenID (6 years)
Browser extension dev (3 years)
Mobile Development / Progressive Web Apps (PWA)
AngularJS
SASS/LESS
WebAssembly / WASM
Web Components
NIST CSF / SP 800-53
WCAG/508, HIPAA, COPAA

Frameworks / Libraries:

APIs (Google, Twitter, DocuSign, PandaDoc, et cetera)
CMS (SharePoint / Jira / WordPress)
ExcelJS / sheet.js / pdf-lib / StencilJS
Ionic / Cordova / Sencha / PWA

DevOps / Cloud:

Cloud Computing (Azure, AWS, PaaS)
Docker / Kubernetes
Shell Scripting / Batch / PowerShell
PaaS, SaaS
MS DevOps
Git Repo Management

Tools/Platforms:

Adobe Photoshop / Acrobat
Excel Macros / VBA
Salesforce
Postman
Visual Studio / Code / Eclipse / JetBrains

Data:

MS SQL Server
MySQL / PostgreSQL
NoSQL / MongoDB

INTERESTS

- Machine Learning
- Drone Flying

Lead Software Developer, 03/2015 to 11/2016

Comcast/Xfinity via *Judge Group* - Philadelphia, PA (remote, contract)

- Design and develop browser extensions for Chrome, Safari, and Firefox Webextensions using JavaScript, JSON, HTML, and CSS. Use the suite of browser-specific plugin APIs, ReSTful APIs, OAuth 2.0. These plugins warn users if they go to a dangerous or pirate website, with a number of other features.
- Chrome, Safari, & Firefox Extension Development, HTML, JavaScript, CSS, Photoshop, Git repo administration

Senior Developer Lead, 06/2014 to 01/2015

Avaya - Raleigh, NC (remote, contract)

- Front end/UI and Server-side development with JavaScript/CSS/HTML, especially with jQuery/JSON/AJAX, Angular.js, Bootstrap.js and PHP on Apache and IIS, and MS SQL Server. Part of a long-running team on a complex custom environment, tech lead with heavy mentoring.
- JavaScript, HTML, CSS, PHP, SQL, Bootstrap.js, Angular.js, Node.js, Apache, Adobe Photoshop, MS SQL Server, Microsoft IIS

Front-End Engineer 2013

Caesar's Palace via *OSG Global* - Atlantic City, NJ (remote)

UI/UX Developer 2013

Ubisense, via *Oxford International* - Denver, CO (remote)

Web Developer 2012

Federal Reserve - Saint Louis, MO

Web Application Developer 2011

AT&T via *Axelon* - Saint Louis, MO

Senior Web Developer 2011

Charter Communications - Saint Louis, MO

Senior Web Developer 2010

Boeing via *Talisen* - Saint Louis, MO

Education

Computer Programming Certification: Computer Programming and electronics

CAVC - Collinsville, Illinois

FreeCodeCamp - San Francisco, CA

Certification: React Native / Redux / Next.js

Southern Illinois University Edwardsville - Edwardsville, IL
Computer Science

TechSkills - Saint Louis, MO

MCSD: C#.NET

Accomplishments

- Architect in development and testing of major hotel booking engine
- **Boeing Excellence in Achievement** award as part of "four musketeers" team developing 767 aircraft sales website
- Mentored team of 12 developers on advanced JavaScript/CSS development

- 3D Printing
- Philosophy of Science
- History
- Student of Stoicism (a-la Marcus Aurelius, and the Enchiridion)
- Former guitar teacher
- Developed high-volume, front-facing websites, and mission-critical internal corporate web systems
- **Linux Guru:** When I started using Linux when I was a wee lad in 1992, the kernel was in alpha, X was an experiment that didn't even have a window manager, and Slackware did not yet exist. I also have considerable open source experience, including Mozilla (now called Firefox) as well as Linux. I'm also competent as an admin with Windows and MacOS.
- **Open Source Superman:** Aside from Linux, was involved in various other OSS projects, including Mozilla (you'd know it as Firefox) from the start.
- **Award-winning Wikipedian**, 10,000 edits, featured list, DYK, Curator Barnstar, Autopatrolled, similar cred with genius.com. Created articles include: React Fiber, ice cream float, Moultrie flag, Cyberpunk, and Segregated Witness.

A handwritten signature in black ink, appearing to read 'K' and 'Z'.