

SOFTWARE ENGINEER

Experienced software engineer proficient in full-stack application development, data-driven analytics, and DevOps infrastructure, with a track record of developing scalable and efficient systems that enhance operational efficiency - www.davidmvenegas.com

TECHNICAL SKILLS

Python • JavaScript • TypeScript • React • Angular • Node.js • Django • Go • C/C++ • Docker • Kubernetes • Terraform • MongoDB SQL • PostgreSQL • Cassandra • Redis • Java • C# • .NET • UI/UX • REST • gRPC • Cybersecurity • Git • Cloud • Linux • DevOps

EXPERIENCE

Stoke Space Full Stack Engineer - System Software	<u>Seattle, Washington</u> 06/2023 - Present
<ul style="list-style-type: none">Engineered and optimized software for high-cadence aerospace manufacturing and rigorous hot-fire rocket engine testingMaintained 24/7 operational integrity of systems, delivering rapid < 30-minute hotfixes to uphold stringent reliability standardsCollaborated closely with UX designers and multidisciplinary teams to conceptualize and ship 8+ operation-vital functionalitiesIncorporated CI/CD end-to-end and unit testing, cutting cycle time by 25% and markedly reducing production bugs by 40%	
Renegade.Bio Senior Software Engineer - Team Lead	<u>Berkeley, California</u> 04/2022 - 06/2023
<ul style="list-style-type: none">Utilized Docker and Kubernetes to orchestrate 5+ high-availability applications with YAML files, ensuring +99.999% uptimeLed end-to-end Software Development Life Cycle (SDLC), from designing RESTful APIs to implementing CRUD applicationsDesigned robust CI/CD pipelines with GCP and AWS, accelerating development by over 30% in high-stakes environmentsArchitected secure MFA authentication systems for 10k+ users with OAuth and JWT, safeguarding sensitive operational data	
AxonBytes Full Stack Developer - Solutions Engineer	<u>Orlando, Florida</u> 12/2020 - 04/2022
<ul style="list-style-type: none">Engineered a reliable data-reporting platform with TypeScript, React, and PostgreSQL, efficiently handling 1TB+ of data dailyImplemented Redux & Zustand for advanced state management, improving the maintainability of business-critical applicationsConstructed ultra-responsive user interfaces with Next.js and GraphQL, improving data rendering times by more than 50%Responsible for scaling core applications on Linux servers, ensuring optimal performance for 20K+ users during peak traffic	
2ndWatch Corporation Software Engineer - Associate Developer	<u>Chicago, Illinois</u> 09/2018 - 12/2020
<ul style="list-style-type: none">Transformed complex Figma designs into 15+ functional applications with MERN-stack, MySQL, Apache, and NX FrameworkDeveloped complex software modules using Python, Django, and C++, strategically ensuring system efficiency and reliabilityUtilized Git for version control, facilitating effective team collaboration and code integrity across multiple development stages	

TECHNICAL PROJECTS

ChatGPT Microphone - Github Repo Live Demo - Adds voice-to-text and efficiency-boosting shortcut snippets to ChatGPT
<ul style="list-style-type: none">Leveraged JavaScript, React, and Astro to develop a dynamic UI/UX, incorporating automatic voice-to-text integrationEmployed Docker, Jupyter Notebooks, and NLP for robust and scalable AI development, testing, analytics, and deploymentImplemented Agile and Test-driven development methodologies, contributing to user base growth and notable time savings
GrokAI Technologies - Github Repo Live Demo - AI-powered semantic search platform for massive document collections
<ul style="list-style-type: none">Utilized Python, C++, DartJS, and Redis caching for developing latency-sensitive ML models, powering semantic searchHarnessed GCP & Terraform to streamline development of complex AI components, guaranteeing scalability and successCollaborated with a 16-year NASA engineer co-founder, ensuring high-quality outcomes with scrum and pair-programming

EDUCATION

MIT Professional Education - Cloud & DevOps Cloud Computing, DevOps, software design, and cutting-edge industry tools & methodologies	<u>Boston, Massachusetts</u> 2020 - 2021
Flatiron School - Full Stack Software Engineering Full Stack Web Development, JavaScript, React, Redux, Django, Python, SQL & more	<u>NYC, New York</u> 2018 - 2019

CERTIFICATIONS

Certified Cloud Practitioner - AWS (Amazon Web Services) <i>The foundational accreditation from the world's largest cloud provider</i>	View Certificate
CompTIA Security+ - Computing Technology Industry Association <i>A globally recognized certification that validates skills necessary to perform core security functions</i>	View Certificate