David Venegas - Senior Software Engineer | Fullstack Software Engineer

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SOFTWARE ENGINEER

Experienced software engineer proficient in leveraging cutting-edge technologies to solve complex problems, with a track record developing scalable, mission-critical applications and 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   Seattle, Washington
Full Stack Engineer - System Software   *06/2023 - Present*
- Engineered and optimized software for high-cadence aerospace manufacturing and rigorous hot-fire rocket engine testing
- Maintained 24/7 operational integrity of systems, delivering rapid < 30-minute hotfixes to uphold stringent reliability standards
- Collaborated closely with UX designers and multidisciplinary teams to conceptualize and ship 8+ operation-vital functionalities
- Incorporated CI/CD end-to-end and unit testing, cutting cycle time by 25% and markedly reducing production bugs by 40%

Renegade.Bio   Berkeley, California
Senior Software Engineer - Team Lead   *04/2022 - 06/2023*
- Utilized Docker and Kubernetes to orchestrate 5+ high-availability applications with YAML files, ensuring +99.99% uptime
- Led end-to-end Software Development Life Cycle (SDLC), from designing RESTful APIs to implementing CRUD applications
- Designed robust CI/CD pipelines with GCP and AWS, accelerating development by over 30% in high-stakes environments
- Architected secure MFA authentication systems for 10k+ users with OAuth and JWT, safeguarding sensitive operational data

AxonBytes   Orlando, Florida
Full Stack Developer - Solutions Engineer   *12/2020 - 04/2022*
- Engineered a reliable data-reporting platform with TypeScript, React, and PostgreSQL, efficiently handling 1TB+ of data daily
- Utilized Redux and Zustand for advanced state management, improving the maintainability of business-critical applications
- Constructed 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   Chicago, Illinois
Software Engineer - Associate Developer   *09/2018 - 12/2020*
- Transformed complex Figma designs into 15+ functional applications with MERN-stack, MySQL, Apache, and NX Framework
- Developed complex software modules using Python, Django, and C++, strategically ensuring system efficiency and reliability
- Utilized Git for version control, facilitating effective team collaboration and code integrity across multiple development stages

TECHNICAL PROJECTS

ChatGPT Microphone - [Github Repo](#) | [Live Demo](#) - *Add voice-to-text and efficiency-boosting shortcut snippets to ChatGPT*
- Leveraged JavaScript, React, and Astro to develop a dynamic UI/UX, incorporating automatic voice-to-text integration
- Employed Docker, Jupyter Notebooks, and NLP for robust and scalable AI development, testing, analytics, and deployment
- Implemented 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*
- Utilized Python, C++, DartJS, and Redis caching for developing latency-sensitive ML models, powering semantic search
- Harnessed GCP & Terraform to streamline development of complex AI components, guaranteeing scalability and success
- Collaborated with a 16-year NASA engineer co-founder, ensuring high-quality outcomes with scrum and pair-programming

EDUCATION

MIT Professional Education - Cloud & DevOps   *Boston, Massachusetts*
Cloud Computing, DevOps, software design, and cutting-edge industry tools & methodologies   2020 - 2021

Flatiron School - Fullstack Software Engineering   *NYC, New York*
Full Stack Web Development, JavaScript, React, Redux, Django, Python, SQL & more   2018 - 2019

CERTIFICATIONS

Certified Cloud Practitioner - AWS (Amazon Web Services)   [View Certificate](#)
The foundational accreditation from the world's largest cloud provider

CompTIA Security+ - Computing Technology Industry Association   [View Certificate](#)
A globally recognized certification that validates skills necessary to perform core security functions