Brett Smith

Full Stack & AI Engineer

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https://dzrootstack-xyz.vercel.app/

SUMMARY

Senior Full Stack and AI Engineer with over 11 years of experience building and leading high-quality web and AI-powered applications. Skilled at designing scalable systems, improving performance, and delivering secure, production-ready solutions. Known for strong problem-solving, leadership, and the ability to turn complex ideas into reliable, user-focused products.

EXPERIENCE

Senior Software Engineer
NexWEB – New York, NY | *May 2022 – October 2025*

- Developed intelligent, end-to-end web applications integrating **OpenAI** and **Hugging Face APIs** with **React**, **Next**.js, and **Node**.js, delivering dynamic conversational and generative AI experiences.
- Built and deployed machine learning models using **Python**, **TensorFlow**, and **PyTorch**, automating data analysis, content generation, and predictive workflows.
- Architected microservices and data pipelines across **AWS**, **Azure**, and **GCP** using **Docker**, **Kubernetes**, and **Terraform**, ensuring scalability and resilience.
- Enhanced UX and performance through **Tailwind CSS**, **Next**.js **SSR**, and Svelte, while integrating **AI-driven recommendations**, **chatbots**, and **semantic search** capabilities.
- Implemented secure, production-grade systems with **OAuth2**, **JWT**, and **HTTPS**, ensuring compliance and robust data protection.
- Explored **AI-blockchain** convergence by deploying smart contracts on **Ethereum** and **Polygon**, enabling on-chain automation and tokenized AI applications.

Full Stack Engineer
Reco Universal LLC – New York, NY | *June2019 – April 2022*

- Developed and deployed scalable web applications using **React**, **Next**.js, **Node**.js, **TypeScript**.
- Integrated **OpenAI GPT APIs** into chat and recommendation systems.
- Built vector search and semantic retrieval using **LangChain** and **Pinecone.**
- Developed custom **ML workflows** with **TensorFlow** and **FastAPI** on AWS Lambda.
- Built secure APIs and microservices using **Express**.js, **Django**, and **FastAPI** for seamless system communication.
- Automated processes and data pipelines to reduce manual tasks and improve reliability.
- Managed **cloud infrastructure** on **AWS**, **Azure**, and **GCP** using **Docker**, **Kubernetes**, and **Terraform**.
- Delivered optimized, responsive interfaces with **Tailwind CSS**, **Svelte**, and modern **React** patterns.

Full Stack Engineer
Codoxo– Atlanta, GA | *Dec 2017 – May 2019*
- Built high-performance web apps with **Laravel**, **React**, **Vue**.js, and **Angular**.
- Modernized legacy systems using **cutting-edge JavaScript frameworks**.
- Developed backend systems with **Django**, **Flask**, and **Node**.js for large-scale data processing.
- Leveraged **AWS** (EC2, S3, RDS) for cloud deployments.
- Streamlined **DevOps** workflows with **Docker**, **Kubernetes**, and **Elastic Beanstalk**.
- Integrated third-party services via **REST** and **GraphQL**.
- Implemented robust testing (**Jest**, **Mocha**, **Cypress**) for quality assurance.
- Developed analytics features using **Python**, **Pandas**, and **NumPy**.
- Led Agile teams using Scrum practices; mentored junior engineers and fostered team growth.

Full Stack Developer
Teradata – San Diego, GA | *May2014 – Nov 2017*
- Developed enterprise applications using **Java**, **Spring Boot**, **Angular**, and **React**.
- Modernized legacy systems with **HTML5**, **CSS3**, and modern **JS frameworks**.
- Built **RESTful** APIs and **microservices**; managed deployments on **AWS** and **Azure**.
- Utilized **Jenkins** and **Git** for CI/CD and version control.
- Architected **SQL** and **NoSQL** solutions with **MySQL** and **MongoDB**.
- Secured applications with OAuth2, **JWT**; adopted **Agile** and **TDD** methodologies.
- Delivered real-time dashboards using **D3**.js and **React** for data visualization.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, SQL, HTML5, CSS3

Frontend: React, Next.js, Angular, Vue.js, Tailwind CSS, Svelte, Wordpress

Backend: Node.js, Express.js, Django, Flask, FastAPI, NestJS, PHP, Laravel

AI / ML / Automation: OpenAI, LangChain, TensorFlow, Hugging Face, Zapier, n8n, Numpy, LLM

Cloud & DevOps: AWS, Azure, GCP, Docker, Kubernetes, Terraform, Jenkins

Databases: PostgreSQL, MySQL, MongoDB, Redis

Tools & Others: Git, GraphQL, REST APIs, WebSockets, Kafka, RabbitMQ, Postman

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EDUCATION

Bachelor's degree of Computer Science
University of Southern California | *2008 – 2013*
Los Angeles, CA