Taylor Mohney

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SUMMARY

Senior Software Engineer with 10 + years designing and shipping high-performance **GraphQL and REST APIs** in **TypeScript, Python, and Go**. Deep experience with **Docker, Kubernetes, and cloud platforms (AWS & GCP)**; strong in **microservices architecture, CI/CD, test-driven development, and agile delivery**. Skilled at integrating **machine-learning pipelines** and championing code quality, scalability, and cross-team collaboration.

EXPERIENCE

Lead Full Stack Developer

Department of Defense   **February 2024 – May 2025, Remote**

· Developed a peer-to-peer video conferencing application using WebRTC, React, and TypeScript, achieving 99.9% uptime in production.
· Engineered a custom signaling server in Go to manage multi-user video chat coordination, supporting seamless communication for up to 100 concurrent users.
· Designed a scalable mesh network topology to support N-to-N peer connections, reducing connection latency by 30% and improving overall video call quality.
· Implemented WebSocket for real-time communication and ICE protocol for NAT traversal, increasing connection success rates by 25%.
· Spearheaded the development of a secure RESTful API using Node.js and Express, facilitating data exchange for a sensitive data processing application with an encryption layer that enhanced data confidentiality by 50%.

Senior Full Stack Developer – Angular, React, Node, Python

USDA   **January 2022 – February 2024, Remote, Missouri**

· Led the design and implementation of scalable, data-driven applications, reducing software bugs by 35% and accelerating feature delivery timelines by 20%.
· Designed and developed microservices using Angular and FastAPI, integrating with AWS Lambda and API Gateway to enable seamless communication between architectural components.
· Streamlined backend processes by developing Python-based APIs, enhancing system performance and reliability, resulting in a 25% reduction in latency for key workflows.
· Migrated critical features to a modular architecture using Angular, React, and AWS services, improving maintainability and deployment efficiency by 40%.
· Engineered end-to-end web solutions leveraging Angular, React, Node, and Python, leading to a 50% increase in user engagement and a 30% boost in application responsiveness.

Full Stack/Web3 Developer — Solidity, React, Node, AWS

Coinbase   **May 2021 – December 2022, Remote, New York**

· Engineered a Web3 dApp with advanced security features, performing in-depth mempool analysis to ensure platform scalability and reliability for high transaction volumes.
· Directed a team in developing and launching a cutting-edge NFT marketplace using React, Web3.js, and Golang, reducing time-to-market by 30%.
· Strategized and implemented features that drove a 20% increase in quarterly revenue, enhancing user engagement and marketplace transactions.
· Architected and deployed smart contracts on Ethereum blockchain using Solidity, leveraging AWS infrastructure to handle over 500,000 transactions monthly, ensuring robust security and scalability for decentralized applications.
· Configured GraphQL schemas coupled with Ethereum node API, executed through React to streamline data querying processes and optimized server communication.

Contract Software Engineer

Apple   **November 2020 – May 2021, Remote**

· Architected and deployed end-to-end machine learning pipelines using open-source tools (e.g., LangChain, Hugging Face, Ray, MLflow), supporting integration of foundation models like OpenAI and Anthropic for real-time inference and fine-tuning.
· Built modular chatbot workflows with dynamic node-based logic using GraphQL and Node.js, enabling LLM agents to interact with complex data flows and external APIs in real time.
· Developed CI/CD pipelines for ML models and data services using open-source DevOps stacks (e.g., Docker, GitHub Actions, Terraform, Prometheus), reducing deployment friction and model rollback time by 40%.

- Designed scalable orchestration patterns that bridge private LLMs and cloud-hosted endpoints (e.g., vLLM, Ollama, SageMaker endpoints), improving security and latency across hybrid deployments.
- Collaborated closely with ML engineers, frontend developers, and data ops teams to streamline model serving and system observability—cutting integration delays by over 30%.

Full Stack Developer
Ai-Blockchain   **December 2017 - November 2020, Remote, California**
- Designed and implemented a scalable architecture for blockchain-based payment systems, enhancing operational efficiency and reducing downtime by 40%.
- Conducted rigorous code reviews and established best practices for secure smart contract development, preventing vulnerabilities and enhancing code quality.
- Collaborated with cross-functional teams to integrate blockchain technology with existing payment gateways, streamlining adoption for businesses.
- Enhanced system reliability through automated testing pipelines, achieving a 90% reduction in critical bugs post-deployment.
- Spearheaded adoption of emerging blockchain consensus protocols, improving transaction validation speed and network security.

Full Stack Developer Intern
Zenbase   **December 2016 - December 2017, Remote**
- Implemented a far-reaching rental payment platform feature using React and Node.js, enhancing user experience and increasing transaction efficiency by 25% within three months.
- Implemented Solidity contracts for a proof of meditation platform, ensuring smart contract security and functionality using industry best practices.
- Developed smart contracts in Solidity, enhancing gas efficiency through the use of bit manipulation and inline assembly, resulting in a 15% reduction in transaction costs.
- Utilized modern tools to detect and address security vulnerabilities, enhancing platform security by 40%.

EDUCATION

Computer Science Phd [Anticipated 2027]
University of Nevada Las Vegas · Las Vegas, Nevada · 2019

CERTIFICATIONS

AWS Machine Learning Certification - Specialty
Amazon Web Services · 2025
- Certified in Machine Learning and Artificial Intelligence training and application with AWS technologies
- Certified in data preparation and analysis/science with AWS technologies

AWS Certified DevOps Engineer — Professional
Amazon Web Services Training and Certification · 2025
- Certified in AWS DevOps technologies and applications

AWS Certified Developer — Associate
Amazon Web Services Training and Certification · 2023
- Certified in development with all AWS technologies
- Application of Cloud and Serverless technologies

AWS Certified Cloud Practitioner
Amazon Web Services Training and Certification · 2022
- Certified in AWS cloud technologies and their application

SKILLS

Front End: HTML, CSS, Typescript, Javascript, React, Angular, Next

Backend: Go, Python, Javascript, Typescript, Node, Express, FastAPI, Django

Blockchain: Rust, Solidity, Web3JS

Research: https://github.com/CatsMeow492/parameter–efficient–fine–tuning–of–large–models/blob/master/docs/experimental_results.md in https://arxiv.org/

 DevOps: Docker, Kubernetes, Amazon Web Services, ECR, ECS, API Gateway, EC2, ALB, Git, EKS, IAM, Azure, GCP