James Fulford

Senior Software Engineer seeking a challenging and rewarding remote role
Experienced in: Front-end Web and API Development, System Design, Testing Methodology, Security

Experience

Software Engineer, FINRA, Remote USA   07-24 to **now**
• implemented document editing lock/lease with MongoDB transactions and majority write concerns
• prototyped real-time multi-user editing app with Yjs, CRDTs, WebRTC, WebSockets on AWS API Gateway
• used Angular 17, Python, AWS Lambda, TypeScript, Poetry, pytest

Software Engineer, Member of Technical Staff 2, eBay, Remote USA   03-23 to 02-24
• architected micro-frontend framework and Agent Case Management micro-frontend with React, Vite
• wrote C#-to-JavaScript event bridge spec for migrating from custom desktop app to Genesys cloud
• reduced time to show AI Summary to agents from 6s to 0.6s (90% improvement)
• improved automated testing practices to increase confidence and velocity using Jest, Cypress
• presented technical comparison of Salesforce and Dynamics contact center capabilities and APIs
• used Java, Spring, Node.js, TypeScript/JavaScript, React, Redux, MUI 5, Webpack, Vite

Sabbatical: Founder and CEO, An Ounce of Silver Technologies, Remote USA   11-21 to 02-23
• achieved 66% ROI in personal accounts during 2022 using Quantitative and Technical Analysis
• researched and back-tested algorithms using Python, Jupyter Notebooks, pandas, quantstats
• developed a strategy translator from Symphony format (composer.trade) to Python
• wrote intraday technical analysis visualization for finding support/resistance lines using Pyodide

Software Engineer, Grade 8, Cisco, Remote USA   10-18 to 12-21
• promoted twice in 3 years for initiative, work ethic, accountability, quality, and fast delivery
• worked on Webex Contact Center SaaS Enterprise software, especially developer programs
• led delivery of webhook microservice with 6 engineers using Kafka, Java, Spring, AWS Aurora/MySQL
• scaled to 600 webhooks / second per pod without incident using Gatling, Golang, Redis, Kubernetes
• led delivery of API gateway with 2 engineers using Istio, Envoy, Lua, Grafana, Java, Spring, OAuth2
• documented auth, error handling, and rate limiting policies for 3rd party developers
• led delivery of REST API project (finished 2 weeks early) with Flink, Elasticsearch, Spring Boot, AuthN
• owned reporting UI team of 7 engineers, delivered commitments and fixed 100+ extra bugs in 4mo
• initiated grooming neglected reporting UI backlog with Product, and worked with UX on designs
• applied ISC2 Security training as API Management team's Security Champion
• identified S1 security vulnerabilities and coordinated closure across engineering silos
• prototyped Tableau integration using React, OAuth2, Embedded Chrome, REST APIs
• prototyped micro-frontend framework using Web Components, Lit, React, GraphQL, WebSockets
• set up on-call rotation, created Prometheus alerts and incident Runbooks for microservices
• improved velocity using the testing trophy, deploying often, and a good Definition of Ready/Done
• developed admin UI features with feature flagging, internationalization, AngularJS 1.5+, TypeScript
• used Angular, Go (Golang), Jenkins, Bash, Python, Node.js, Agile/Scrum, Jira, Git, SonarQube, SASS

Release Engineer, C Squared Systems, Auburn NH 3rd shift using Python, Linux, MySQL, Ansible   11-17 to 09-18
Webmaster, Manchester Community College, Manchester NH part-time using PHP, HTML, CSS, JS   01-17 to 06-17
Digital Marketer, Family Business, Amherst NH part-time using Python, HTML, CSS, JS, Buffer API   03-14 to 08-17

Education

Harvard Extension School (online)	Masters	Information Management Systems	4.0	08-18 to 11-21
Charter Oak State College (online)	Bachelors	Business and I.T.	4.0	06-18 to 12-18
Rivier University	Bachelors	Mathematics	3.99	09-14 to 05-17

Courses: NLP, Machine Learning, Azure Cloud Computing, Strategic Decision Making, Agile Principles

Portfolio

Cashflow Projector using rrule spec, beta testing, PostHog, React, TypeScript, a10n, Vercel   2024
Author on Medium, see Testing React Hooks and useTime() React Hook   2019 to 2022
Is It Shabbat? Web, Android, and iOS App using Expo, React Native, TypeScript, Redux   2018 to 2022
Solomon Webapp using Python, Django, React, Redux, Auth0, MySQL, Docker, DigitalOcean   2020 to 2021
Udacity: Self-Driving Car Nanodegree using C++, Python, Computer Vision, Deep Learning AI   2019

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