

# James Fulford

Senior Software Engineer seeking a challenging and rewarding remote role

Specialized in: Front-end React, APIs, 3<sup>rd</sup> Party Dev Enablement, Automated Testing, Security, Remote Teams

## Experience

### Software Engineer, Member of Technical Staff 2, eBay, remote

03-23 to 02-24

- reduced time to show AI Summary to Customer Service agents from 6s to 0.6s (90% improvement)
- engineered C# to JavaScript event bridge to enable transition from custom Agent desktop app to cloud
- built Case Management UI widget and defined how to make widgets that survive migration to cloud
- documented technical comparison of Salesforce and Microsoft Dynamics cloud vendors, incl. APIs
- improved automated testing practices to increase confidence and velocity using Jest, Cypress
- used Java, Spring, Node.js, TypeScript/JavaScript, React, Redux, Webpack, Vite, Preact Signals, i18n

### Sabbatical: Founder and CEO, An Ounce of Silver Technologies, remote

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
- deployed and monitored algos with Python, Docker, PagerDuty, DigitalOcean, Alpaca APIs, Cronitor
- 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

10-18 to 12-21

- **promoted twice in 3 years** for responsibility, quality, and fast delivery
- led delivery of webhook system 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 3<sup>rd</sup> party developers
- applied ISC2 Security training as API Management team's Security Champion
- led delivery of REST API project (finished 2 weeks early) with Flink, Elasticsearch, Spring, OAuth2
- identified S1 security vulnerabilities and coordinated closure across engineering silos
- prototyped Tableau integration using React, OAuth2, Embedded Chrome, REST APIs
- prototyped next-generation Agent Desktop using Lit, Web Components, React, GraphQL, WebSockets
- 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
- participated in on-call rotation, created Prometheus alerts and incident Runbooks
- improved velocity using the testing trophy, deploying often, and a solid story Definition of Ready/Done
- developed internationalized admin UI features with a feature flagging with AngularJS 1.5+, TypeScript
- used Angular, React, TypeScript, Java, Spring, Jenkins, Bash, Python, Node.js, Agile/Scrum, Jira, Git

**Software Release Engineer, C Squared Systems, Auburn NH** 3rd shift using Python, Linux, MySQL

11-17 to 08-18

**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 Buffer, Python, JS, Web Design

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, Deep Learning, Azure & C# Cloud Computing, Strategic Decision Making, Agile Principles*

## Portfolio

**Cashflow Projector:** "take back your bank account, start planning today!"

02-24 to **now**

- developed personal finance app for anticipating future cashflows using React, Vite, Signals, rule
- organized beta users, created product backlog, and used PostHog session replays and analytics

**Medium Author** at [james-fulford.medium.com](https://james-fulford.medium.com), 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 Compose, DigitalOcean

2020 to 2021

**Self-Driving Car Engineer Nanodegree** (Udacity) using ROS, Sensor Fusion, C++, OpenCV2, Python

2019

**Movie Sharing App** using C#, ASP.NET, Razor pages, Entity Framework, Active Directory, Azure

2019