

# 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: CEO, Algorithmic Trading Business, 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 algorithms 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 with Python, Linux, MySQL

11-17 to 08-18

Webmaster, Manchester Community College, Manchester NH part-time with PHP, HTML, CSS, JS

01-17 to 06-17

Digital Marketer, Family Business, Amherst NH part-time with 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

Durango, Colorado (MDT)

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