

# James Fulford

Software Engineer with 5 years of experience 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

March 2023  
to Feb 2024

- 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, including 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

### Software Engineer, Grade 8, Cisco, remote

Oct 2018  
to Dec 2021

- promoted twice in 3 years of strong product growth 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 per 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
- taught and/or mentored API Management team members in matters of quality, craft, and security
- 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 React, GraphQL, Apollo client, WebSockets
- owned reporting UI 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
- used Angular, React, TypeScript, Java, Spring, Jenkins, Bash, Python, Node.js, Agile/Scrum, Jira, Git

### Software Release Engineer, C Squared Systems, Auburn NH

Nov 2017  
to Sept 2018

Upgraded production servers at night while automating release reports with Python, MySQL

## Education

Harvard Extension School (online)	Masters	Information Management Systems	4.0 GPA	2018 - 2021
Rivier University	Bachelors	Mathematics	3.9	2014 - 2017
Courses: NLP, Deep Learning, Azure & C# Cloud Computing, Strategic Decision Making, Agile Principles				

## Projects

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

Feb 2024  
to **present**

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

### Sabbatical: Algorithmic Trading Business

Dec 2021  
to Feb 2023

- reached 66% ROI during 2022 (strategies not applicable anymore)
- researched and back-tested algorithms using Python, Jupyter Notebooks, pandas, quantstats
- deployed and monitored algos with Python, Docker, PagerDuty, and DigitalOcean
- developed a strategy translator from Symphony format (composer.trade) to Python for community
- wrote intraday technical analysis visualization for finding support/resistance lines

### Technical Author at [james-fulford.medium.com](https://james-fulford.medium.com), see Testing React Hooks and useTime() React Hook

2019 - 2022

### Is It Shabbat? Web, Android, and iOS App using Expo, React Native, TypeScript, Redux

2018 - 2022

### TD Ameritrade Token Refresher using OAuth2, JavaScript, Express, Docker, Bash, Cron

2022

### Solomon Webapp using Python, Django, React, Redux, Auth0, MySQL, Docker Compose, DigitalOcean

2020 - 2021

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

2019

### Movie Sharing App (coursework) using C#, ASP.NET, Razor pages, Entity Framework, Active Directory

2019

### Yelp Camp App (Udemy course) using Node, Express, Passport, Mongo, REST

2017

### Extended Enigma Encryption Algorithm (coursework) using C#, JSON

2016