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Experience

Principal Software Engineer: Liberty Mutual   2023 - Present

Leader of multiple development teams for global Broker business. Solutions delivered on Salesforce and AWS, for executing on multi-million dollar sales and smaller sales.

In 2023, over 122 thousand submissions were "digitized" by my systems, resulting in improved handling time of 33%, and auto identify and act on 8% unprofitable business.

Senior Software Engineer: Liberty Mutual   2021 - 2022

Tech Lead of Liberty Mutual's External Broker API. Delivered first to market APIs integrated in production with the company's top Broker partner.

Worked with teams across companies to design innovative and useful features for users, using Lucidchart and Jira. Mentored senior and junior developers on API First using OpenAPI (Swagger), and ensured teams deliver consistently using agile practices.

Software Engineer: Liberty Mutual   2019 - 2021

Created and deployed to production AWS serverless infrastructure to do intelligent data extraction and duplicate detection on tens of thousands of documents per day, allowing users to save thousands of work hours per year. Built multi-region active-active systems at a global scale, enabling disaster recovery and high availability.

Presented to over 600 viewers at CDK Day, an AWS Organized Event. Won the "Technical Excellence" Award at Liberty Mutual's largest internal hackathon.

TechStart (Internships and Associate): Liberty Mutual   2016 - 2019

Developed an event driven ecosystem for automatic OCR on stored images. Built with AWS Lambda, SNS, and S3. Spring Boot, Docker on AWS ECS Fargate for vendor product.

Coded tools for underwriters for Ironshore acquisition. Stepped in to tackle application design, and out to make an effective team environment, providing guidance as needed. Resulted in agile solution delivery. Used React, Node, Microsoft Graph API, and Denodo.

Projects

Turnotes   Present

Creating a platform focused on a new Learner/Mentor model. Using the platform recursively to help make itself. Made on Vercel, Next.js, and Supabase.

Reusable AI Software and Patterns   2023

Used AI assistants like ChatGPT to create working software, and documented a reusable process called EDD to show how to create software products using AI.

Unit Test Framework, Simple Programming Paradigm, and Open Source   2019 - 2022

Created a programming paradigm and framework to make both business logic and tests easier to maintain across projects and programming languages (Ex. Java / Maven).

Published several Java and TypeScript libraries, used by coworkers in production.

MadHacks Organizer and Engineer Team Lead   2015 - 2018

Sponsored by Capital One, Liberty Mutual, Microsoft, Google, and others raising over $50,000. Organized two ~300 participant, and three ~100 participant, hackathons.

Video game Server Owner   2012 - 2013

Used PayPal API for payments. Made reusable plugins, leading to 20,000 downloads.

Skills

Languages: Java (Spring), JavaScript and TypeScript (React + Node.JS), Python
Databases: DynamoDB, MySQL, H2, PostgreSQL
Technologies: AWS, OpenAPI (Swagger), Hololens 2, OAuth2, OIDC, Lucidchart, Salesforce
DevOps: Git, Docker, Maven, Flyway, Cloud Foundry, Atlassian (Bamboo, Jira, etc.)
Software Engineering: Agile, Scrum, Well-Architected, Threat Modeling

Education

B.S. Computer Science | Cert/Minor, Mathematics | University of Wisconsin, 2018