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Work Experience

Middesk, Inc.

Software Engineer, Agent Product

November 2021 to April 2023

- Led engineering effort for a company-wide rebranding project. Updated internal NPM component library with new components from Radix UI and added CI/CD infrastructure in CircleCI. Deployed thousands of color, font, and icon refactors across two repositories. Coordinated A/B tests comparing staging to production for releases.
- Collaborated closely with product and design to develop a feature which enabled customers to transfer their preexisting tax registrations to Agent. Took charge of front-end development, creating a multi-page form flow for all U.S. states using React, TypeScript, and Formik. Resulted in 10x increase in customer acquisition.
- Implemented a form generation tool with React and Formik to streamline Operations' requests for additional customer information. Used SendGrid to deliver the form, enabling customers to securely submit their data to Agent. Established a Rails API endpoint for receiving and updating form data.
- Worked cross-functionally with Operations to develop an automation tool using Node.js and Rails which prefilled customer data into tax registration PDFs. Reduced Operations' average time-to-file per tax registration by 70%.
- Provided mentorship to an engineer on their project to refactor static JSON files containing tax questions for all U.S. states. Successfully migrated all questions to the backend in order to access them from internal dashboard.

Microsoft Corporation

Software Engineer (62), Azure Optimization and Efficiency

May 2019 to January 2021

- Created an interactive treemap visualization to display millions of dollars in COGS savings opportunities across all Azure teams. Built with React, D3.js, and an inheritance model so other engineers could easily extend graph types.
- Rapidly shipped features for Efficiency Center to meet deadlines for stakeholders. Appended Karma unit tests and Selenium integration tests to guarantee timely releases. Written in AngularJS and .NET.

Software Engineer (61 – 62), Azure Cosmos DB

July 2017 to May 2019

- Played a pivotal role as the inaugural engineer on the Backup & Restore team, transforming the restore workflow from error-prone to highly reliable. Achieved this with rigorous testing, debugging, and C# code contributions.
- Coordinated hundreds of database restoration efforts, resulting in petabytes of data being recovered for customers.
- Improved observability by adding logging across workflow to aid in debugging production issues. Created an internal monitoring dashboard for external vendors which displayed diagnostic information on database accounts.
- Refactored federation configuration objects stored in memory, reducing object size from 8MB to 1MB across all instances and regions. Reduced frequency of related incidents from 5-per-week to 0.

Education

Iowa State University

Bachelor of Science, Software Engineering

August 2012 to May 2017

Technical Skills

Proficient in: Javascript (ES6+), Typescript, ReactJS, Node.js, SQL, HTML5, CSS3, Styled Components, Jest

Experience with: Ruby on Rails, Python, C#, .NET, PostgreSQL, Next.js, AngularJS, Cypress, Azure, AWS, GCP