Nicholas Cushman

SOFTWARE ENGINEER

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TECHNICAL SKILLS

TypeScript · JavaScript · Python · Node · Java · CSS · HTML5 · React · Next.js · Vue · Express · Django · Redux · Electron
AWS (DynamoDB, EC2, EventBridge, Lambda, RDS, SNS, SQS, S3) · CI/CD (Github Actions) · Docker · Webpack · Vite
Testing (Jest, Mocha, Playwright, Puppeteer, Supertest) · MongoDB · PostgreSQL · Tailwind · MUI · Jira

EXPERIENCE

CircAlert · **Software Engineer**   Oct 2023-Present

Web scraping application leveraging AWS serverless architecture to notify subscribers when new circulars are published

- Leveraged Python with boto3 to develop the Financial Updates Platform, utilizing AWS Lambda to create horizontally scalable, event-driven jobs to ingest banking data and frequent policy changes
- Followed TDD practices in developing reusable utility functions for web scrapers, streamlining development by reducing the overall complexity and size of the code base
- Contributed to the Shared Lambda Layer Utilities lib, adding functionality for identifying and bundling together related banking circular files, facilitating database organization, and reducing DB entries by 5%
- Fostered a highly collaborative environment within the Platform Engineering team, focusing on empathetic communication across code reviews to ensure high quality and best practices

React Relay · **Software Engineer**   Nov 2021-Oct 2023

React dev-tool: visualize front-end component architecture and corresponding HTTP routes and database interactions

- Migrated the layout algorithm for automated node-spacing from Dagre to ELKjs, resulting in a cleaner presentation of large-scale consumer applications, and increasing viewport utilization by 90%
- Developed the JSXray service, using custom algorithms for AST traversal and analysis to provide insight to consumers about the architecture of an application
- Improved the runtime performance of the Electron application by 20% by transitioning the communication layer from an Express.js framework to an IPC mechanism, optimizing data exchange processes
- Implemented strict type-checking in 100% of front-end components using TypeScript, facilitating maintenance and scaling by reducing bugs
- Created custom linting rules to enforce consistent code structure and style, streamlining the development process by enhancing code readability
- Adhered to Scrum methodologies within a team of 4 engineers, engaging in daily stand-ups, managing tasks via Jira, and executing sprints to consistently meet tight deadlines
- Produced under tech accelerator OSLabs (opensourcelabs.io)

Self-Employed · **Professional Poker Player**   May 2013-Nov 2021

- Ran custom queries in PostgreSQL DB to aggregate statistical data used to fine-tune strategies and increase long-term win rate by 32%
- Worked with big data trees to explore game theory optimal solutions to problems, leveraging node-locking to explore how various deviations from game theory impact optimal strategy.

ENGINEERING PROJECTS

Fitness Tracker · **Full-Stack Developer**

- Built a user service with Express.js, using custom middleware functions to handle user sign-up, authentication, and changes to user information
- Implemented nested routing and programmatic navigation using React Router, enabling the persistence of data across component navigation, thereby improving application performance

Trivia Game Night · **Full-Stack Developer**

- Designed a data retrieval system using Mongoose, efficiently aggregating and querying data to generate structured question sets from random categories
- Set up secure user authentication using JSON Web Tokens, allowing for persistent sessions and data security

EDUCATION

- **Ferris State University** · B.A.   2013