Cody D. Schexnider

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Technical Skills & Technologies

Strong: Node.js | Express.js | TypeScript | Deno | Version Control (Git, GitHub) | PostgreSQL | MongoDB | REST API | Redis | JavaScript (ES6+, DOM Manipulation) | React(+Hooks) | Redux

Experienced: AWS | S3 | DynamoDB | Lambda | Elastic Beanstalk | CloudFormation | Docker | Jest | Authentication/Authorization

Experience

Codesmith || Software Engineer 2022

- Trained groups of 30 engineers in React, Redux, Node.js, REST APIs, SQL (PostgreSQL), and NoSQL (MongoDB) databases
- Mentored teams of 5 engineers through the complete Software Development Life Cycle of building full-stack open-source products, facilitating the use of Agile methodologies and best practices to ensure successful product launches
- Led 3 code review sessions per week for other developers to monitor technical progress and adherence to best practices
- Completed tickets through Asana that involved everything from optimizing linked list implementations in the codebase to account for edge cases, to correcting Redux reducers that were directly mutating the global state, to writing unit tests using Jest, and more

OS Labs (Open-Source Product Development) || Software Engineer 2022

- Designed the first distributed lock manager in Deno, which solves the problem of resource contention in distributed systems architecture and ensures that 2 or more threads cannot concurrently access the same database resource
- Engineered cache-based locks with Redis, improving performance by 500% compared with locks stored using a relational database
- Adopted a self-documented codebase with TypeScript to streamline debugging during production, and reduce runtime errors
- Implemented TDD with Jest for more efficient debugging and code maintainability – a 5% increase in productivity
- Product launched in June 2022 under the tech accelerator OS Labs

Command Communications || Electronics Technician 2018 - 2022

- Aligned the reference oscillator of radios using software-defined digital resistance of 3 major manufacturers of radio equipment
- Performed board-level repair of 2 critical internal circuits per radio to restore transmission and audio modulation

Open-Source Contributions

HomeBrew || *Web application for finding breweries and storing the information in a database*

- Developed a relational data model using PostgreSQL database tables to enforce ACID-compliance, security of sensitive data, fault tolerant environments, and data integrity with an average query time of 100ms
- Constructed a RESTful API with a service layer as an interface between OSI Model Layer 7 and the controller's application logic
- Built a Node.js server along with custom Express middleware to serve the client from API endpoints

MyTunes || *Musical interest tracking service*

- Architected a container design pattern with React.js, developing separation between container components and presentational components and eliminating excessive DOM re-renders by mapping state to the smallest number of components necessary
- Created a global store using Redux to ensure consistency in tracking state and enforce predictable process outcomes through the observer pattern's unidirectional data flow

BlogCS || *Blogging application*

- Executed the Express.js framework for server templating and flexible routing of client-facing HTTP requests to 10+ endpoints
- Leveraged a NoSQL database to prioritize data access speed and the ability to handle 2 or more read replicas as BlogCS scales
- Automated application security by using 10 Salt rounds combined with a hash function to shield the application against brute force attacks, improving the security of user data

Education

Houston Community College || Engineering Science 2020-2021

Certifications

Amazon Web Services: Certified Cloud Practitioner

TripleByte Engineering: JavaScript | React | Backend | Algorithms & Data Structures