BILL SHENG

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SKILLS

Languages: JavaScript, Java, Swift, Ruby, Python, HTML/CSS, Typescript, VBA, SQL

Frameworks and Libraries: Node.js (Express.js & Socket.IO), Spring, Ruby on Rails, React/React Native, Angular

Cloud and Tools Git, Docker, VMWare, AWS, MongoDB, MySQL, PostgreSQL, Xcode, JIRA, Postman

General: Testing, Object-Oriented Design, Data Structures and Algorithms, Databases

EXPERIENCE

Full Stack Developer | OpenText (AppWorks Team)   *January 2019 - April 2019*

- Developed a PaaS Cloud Console that provides cloud computing resources, microservices, storage, and deployment capabilities for clients and OpenText teams; engaged in all phases of product SDLC

- Wrote monitoring services and error detection software with Java to provide insight on numerous agents running on external networks; allowed development team to analyze and forecast iOS/Android build jobs

- Revised and optimized 6000+ lines of TypeScript code in client dashboard to be used by 1500+ stakeholders

- Implemented a centralized store design pattern on top of Angular application using NGRX for more reusable code structure; reduced source code by 40%

- Wrote automated unit/integration tests with Mockito and Jasmine for Jenkins CI/CD

Freelance Software Engineer | Self-Employed   *May 2018 – January 2019*

- Interfaced with local businesses to build several full stack applications with React, Angular, and Node.js

- Streamlined dynamic content management using MongoDB for low-code versatility; decreased existing redeployment instances by 90%

Technical Specialist | Canadian Tire Corporation (IT/EIS Services Team)   *May 2018 – August 2018*

- Developed PowerShell scripts for seamless configuration of 20+ enterprise servers; used across IT community

- Engineered large-scale virtualized deployments using VMWare in an agile environment

PROJECTS

Huddle | React Native, Java (Spring), MySQL   *January 2019 - April 2019*

- A mobile social media service that connects sports fans while supporting local venues

- Invoked MVC design patterns to establish application flow between REST API endpoints, database, and client

AirDrums | Python, OpenCV, Matplotlib • UofTHacks 2019 Winner   *January 2019*

- A drum kit simulation program created using computer vision allowing users to play drums in any setting

- Developed object color detection software using Python with OpenCV and Matplotlib libraries

Blitz | Angular, Node.js (Express.js), MongoDB   May *2018 - August 2018*

- A notification system for NFL fans that sends real-time game updates via Twilio SMS microservices; created for active fans without cellular data

- Established OAuth 2.0 and cookie-based authentication for standardized cross-app cybersecurity

EDUCATION

University of Waterloo | Management Engineering (B.A.Sc.)   *September 2017 - April 2022 (expected)*

Relevant Courses: Data Structures and Algorithms, Databases and Software Design, Optimization