Edward Zou

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TECHNICAL SKILLS

Languages: Java, Python, C/C++, Go, PostgreSQL/MySQL, MongoDB, JavaScript, TypeScript, HTML, CSS, R
Frameworks: Angular, React/React Native, Node.js, Express.js, Next.js, Django, Expo, Spring, Bootstrap, OpenCV
Dev. skills: Git, Agile/Scrum, Version Control, CI/CD, Debugging, Unit Testing, Data Structures and Algorithms
Dev. tools: GitHub, GitLab, Docker, Jira, Bitbucket, Postman, VS Code, AWS, Azure, GCP, IntelliJ, Pycharm

EXPERIENCE

Software Engineering Co-op — Jan. 2022 – Aug. 2022
Dodge Construction Network — *Vancouver, BC*
- Developed high quality software and features in accordance with team requirements and feedback
- Successfully diagnosed and resolved a performance issue, resulting in a **30% increase in page rendering speed**
- Implemented unit test code and provided assistance in additional relevant test automation
- Played a crucial role in advancing ongoing enhancements for existing and future systems, **collaborating with cross-functional groups** including Quality Assurance, Operations, and Client Services

Co-Founder and Chief Innovation Officer — Jul. 2019 – Jun. 2021
Popular Innovations Inc. — *Calgary, AB*
- **Influenced and directed IT infrastructure** to align with and drive critical business strategies and processes
- Applied advanced expertise in emerging technologies to successfully achieve critical business objectives
- **Established agile and responsive teams** for the milestones of both cloud-based and stand-alone systems, collaborated effectively across teams on various projects, and served as a member on the board of directors

Data Analyst and Blockchain Engineer — May 2021 – Aug. 2021
HACCTECH Ltd. — *Calgary, AB*
- Utilized Python/SQL to conduct various Data Analytic tasks, including data wrangling, exploratory data analysis, data trending, feature extraction, pattern interpretation, BI dashboard with Tableau
- **Fully implemented blockchain ecosystem** by integrating cryptography, Ethereum, coupling with designing, multi-threaded coding, testing, troubleshooting, and evaluating blockchain projects

EDUCATION

The University of British Columbia — Vancouver, BC
Bachelor of Science in Computer Science — *Sept. 2019 – May 2024*

PROJECTS

Layers | *Typescript, React Native, Expo, Node.js, PostgreSQL, AWS S3* — May 2023 – Present
- Developed a full stack mobile app revolutionizing personal style and digital wardrobe management where users can effortlessly store, share, organize, and design outfits within the app, enhancing their fashion experience
- Designed and implemented an intuitive UI with React Native for the front-end coupled with a high-performance and storage-optimized back-end system utilizing PostgreSQL, AWS S3 and custom API endpoints

Gesture Volume Control | *Python, OpenCV, MediaPipe, osascript* — May 2024 – Jun. 2024
- Developed a computer vision application to control system volume using hand gestures, leveraging OpenCV and MediaPipe for real-time hand tracking, achieving smooth performance at around 30 FPS
- Integrated the application seamlessly with macOS using osascript to dynamically adjust the system volume based on hand gestures, and implemented a visual volume bar indicator to provide real-time feedback to the user

CERTIFICATION

Microsoft Certified — Remote
Microsoft Azure Developer Associate (AZ-204) — *Jul. 2023*
- Proficient in the design and deployment of Azure solutions, spanning compute, storage, and service consumption
- Expertise in securing, monitoring, optimizing Azure solutions, emphasizing third-party connectivity
- Demonstrated ability to navigate and enhance Azure environments for efficient and effective operations