Edward Zou

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TECHNICAL SKILLS

Languages: Java, Python, C++, Go, PostgreSQL/MySQL, TypeScript, JavaScript, HTML/CSS, Objective-C, Swift
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 Engineer   Aug. 2024 – Present
SecureTeck Inc.   *Remote*
- **Enhanced cybersecurity by developing encryption protocols** for metadata, adhering to industry standards
- Utilized key AWS services like S3 and DynamoDB to efficiently store and securely manage sensitive metadata
- Optimized model by **reducing model processing time by 80%** while retaining facial recognition accuracy
- **Collaborated with cross-functional teams** to streamline workflows, automating deployment and improving software delivery efficiency and quality assurance through CI/CD tools and agile methodologies

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

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   Sept. 2019 – May 2024
Bachelor of Science in Computer Science   *Vancouver, BC*

PROJECTS

Layers | *Typescript, React Native, Expo, Node.js, PostgreSQL, AWS, GCP*   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, GCP and custom API endpoints

Gesture Volume Control | *Python, NumPy, 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   Jul. 2023
Microsoft Azure Developer Associate (AZ-204)
- 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