Zhengnan (Timmy) Zhu

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EDUCATION

University of Toronto

Toronto, ON

Master of Engineer in Electrical and Computer Engineering; GPA: 4.0/4.0

Sep 2023 - Aug 2024

University of Waterloo

Waterloo, ON

Bachelor of Computer Science and Financial Management (Honours Co-op); GPA: 3.7/4.0

Sep 2018 - Apr 2023

EXPERIENCE

Xiaomi Technology

Beijing, China

Software Developer

Jan 2022 - Aug 2022

- Backend Development: Developed a C++ application for Xiaomi monitors, similar to Samsung's MagicTune, enabling direct monitor adjustments from computers, with 10,000+ users.
- Frontend Development: Utilized Node.js and the Electron framework to design a user-friendly interface that ensures seamless communication with monitor hardware.
- Embedded Systems Development: Developed custom DDC/CI commands in Embedded C to optimize the firmware code within Xiaomi monitor chips, enabling advanced feature adjustments.

Electro Source Toronto, ON

Software Developer

Sep 2020 - Dec 2020

- Workflow Automation: Automated the tax incentive workflow process using Python, which included updating user work records in the Polarion and Jira systems.
- Slack Bot Architecture: Integrated the workflow with a Slack chatbot, enabling users to update their work records through direct interaction with the bot.
- Email Processing: Developed an automated email processor for record updates via form submissions.

ATS Automation Tooling Systems

Cambridge, ON

Software Developer

Jan 2020 - Apr 2020

- Project Tracking Features: Developed Microsoft Excel VBA tools to assist 100+ team leaders in managing project statuses, enabling real-time updates of work records to a centralized database for managerial monitoring.
- Data Processing: Created an M query file for Power Query to enhance data extraction and analysis processes.

DigitalEd Waterloo, ON

Quality Assurance Analyst

May 2019 - Aug 2019

- Quality Assurance and Testing: Executed 500+ UAT cases and performed exploratory testing in a CI/CD environment, reporting bugs via Jira to maintain the functionality of Möbius.
- Bash Scripting: Implemented functions using Bash scripts to validate user inputs, employing Test-Driven Development (TDD) practices.

Projects

Amazon-Style Shopping Website | GitHub

• JavaScript and React Website Development: Utilized the React framework along with JavaScript and CSS to create a website similar to Amazon.

Mobile Gesture Recognition App | GitHub

• Kotlin App Development: Developed a mobile application using Kotlin that recognizes gestures. The app identifies and displays the top three matching gestures from the gesture library..

Face Recognition and Age Estimation | GitHub

• Neural Network Architecture: Developed and compared CNN, ResNet, DenseNet, Xception and Squeezenet models for face recognition and age estimation in Python, incorporating data cleaning and augmentation.

SKILLS

Programming Languages: C/C++, Python, Java, Bash, R Studio, VBA, DrRacket, Kotlin, JavaScript, HTML/CSS Technologies: React, Electron, Node.js, MySQL, Git, Docker, AWS, Kubernetes, Google Cloud Platform, PyTorch, TensorFlow, Keras, Bitbucket, Jira, LaTeX, Polarion, PowerBI