WANGHAO TANG (Albert)

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PROFESSIONAL SUMMARY

Dedicated and result-focused recent master graduate with expertise in full stack software development. A positive team player who takes initiative and keen to jump in and help. Adaptable, fast learner works well in fast paced, priority-driven environments. Through hands-on experience in backend and frontend development, testing and data model design. Knowing for excellent troubleshooting skills, customer consulting skills, and commutations skills in teamwork.

TECHNICAL SKILLS

Programming language: Python, C++, Java, PHP, Node.js, React, SQL, NoSQL, HTML, CSS, JavaScript

System environment: Linux, MacOS, Windows

Tools and applications: **AWS** (S3, EC2, SQS, Lambda, DynamoDB), **Docker**, **GitHub, Jira**

EDUCATION

September 2016 – April 2020	September 2020 to April 2022
Bachelor of Mathematics	**Master of Science**
Double Major: Computer Science && Statistics	Major: Project Management
University of Waterloo	Northeastern University

PROFESSIONAL EXPERIENCE

Aurora Technology Development | Markham, Canada **|** Software Developer **|** August 2022 – Now

- Used PHP Laravel framework to create a web page for managing agents and clients for a real estate company. Analyzed the functions required by clients for real estate web pages and designed UML.
- Designed and developed the login system, SMS message service, Email notification system, user and customer account management system in PHP.
- Used Lambda, AWS SQS, Python to download the data from the suppliers and upload to S3 and MySQL that triggers the data upload process in the CI pipeline, which reduced the workload by 20%. Used Python scripts to improve database updating process that can automatically update over 1 million data entries in DB. Reduced 80% of manual work compared to the original working process, saving 10 hours per week for the development team.
- Operated and managed the MySQL database. Updated 20 tables every week by using the suppliers' given API.

Chinasoft International | Software Developer Intern **|** September 2021 – December 2021

- Collaborated with Microsoft teams to evaluate the reliability of code base for Azure IoT Device Update (ADU) service. Identified 20% potential uncovered test cases.
- Improved the robustness of ADU code by writing unit test cases in C#. Increased the code coverage from 50% to 85%.
- Recorded the weekly work of the team in detail, which greatly reduce the learning time of new team members and helped them understand the work content quickly.

PROJECTS

Weather Forecast Web App (React, AWS)

- Developed a Cloud Web-App that provides features including keyword searching, location positioning, weather forecast and user comments system.
- Performed full-stack development by building the frontend with REACT; back-end lambda services with Node.js and DynamoDB. Leveraged modern cloud native architecture and AWS serverless framework which ensures robust reliability and accessibility.

Protector (Java, Android Studio)

- Designed both UI (ex. characters, animations, game theme, layouts etc.) and game logics (ex. levels, combat system etc.) of the entire game. Supported 10 game difficulty levels, 5 boss fights and 20 in-game characters.
- Drove the project end to end by defining project scope, creating epics on JIRA, planning with appropriate ETA for each task and ensured the objectives were delivered on time.

Chess (C++, Linux)

- Designed and implemented a distributed event handling system with observer design pattern which resolved key technical challenges of multi-player interaction. Supports real time AI interaction based on player moves.
- Oversaw the complete project life cycle end to end, including system design, implementation, test/QA and final project delivery. Conducted weekly planning meetings to define project milestones; Drove weekly scrum and review sessions to track the progress of the project. Supported the team by providing feedbacks on 35 merge requests.