Kelvin Zhao

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EDUCATION

University of British Columbia   **Vancouver, BC, CAN**
Bachelor of Science, Major in Computer Science **(GPA: 4.22/4.33)**   *Expected May 2024*
Key Courses: Algorithms and Data Structures (C++), Software Engineering (Full Stack), Hardware and Systems (C)

SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, C#
Tools and Frameworks: React, Angular, Node.js (Express), Flask, AWS (CDK), Docker, Git, Linux

EXPERIENCE

Sony Pictures Imageworks   **Vancouver, BC, CAN**
Software Developer Intern   *Jul 2023 – Jan 2024*
- Delivered a **full-stack, cross-platform note management application** using **Angular**, **Flask**, **Oracle**, and **Electron**. This app deploys as both a **web and desktop application** from a **shared codebase** and significantly contributes to the company's initiative for enhancing artist documentation discovery and accessibility.
- Created an **Oracle database schema** using **SQLAlchemy ORM** in a Flask backend to manage and categorize **over 200 artist notes**, optimizing content organization and retrieval on the company's isolated content delivery network (CDN). Ensured the application met end-user needs and expectations.
- Designed and implemented **RESTful APIs** to handle robust **CRUD operations** on notes, categories, and tags.
- **Implemented UI/UX** enhancements **outside of project scope** based on artist and stakeholder feedback.

Paragon Testing (Acquired by Prometric)   **Remote (Vancouver, BC, CAN)**
Software Developer Intern   *Jan 2022 – Aug 2022*
- **Developed and fulfilled 35+ full-stack feature requirements** in collaboration with company stakeholders. Scoped, designed, and implemented changes in **Angular** and **C#** in accordance with stakeholders' needs.
- **Increased efficiency of quality assurance by 30%** by writing **SpecFlow** scripts to automate repetitiveness of feature testing and regression testing, significantly reducing manual effort and potential for human error.
- Optimized operational reports and **SQL stored procedures** to maintain quality of business intelligence. **Reduced number of redundant outgoing reports by 86%.**
- Enhanced the functionality of several internal web applications. Transformed Angular components to **optimize administrative processes** and resolve UI problems that were negatively impacting productivity.

PROJECTS

LetMeInUBC
- A **serverless React app** to help UBC students with course registration by sending an email when a desired course becomes available—for free! Attracted and serviced **over 100 unique course tracking requests**.
- Streamlined **Python** and **TypeScript** functions to use AWS Lambda and DynamoDB instead of previous container hosting, which removed 100% of costs **($45 to $0 per month)**.
- Lead developer of back-end. Used **AWS Lambda, Beautiful Soup,** and **AWS API Gateway** to detect and notify students when a course is available. Developed using **AWS CloudFormation**.

Echo
- A platform game developed for *Global Game Jam 2020* using **C#** and **Unity 2D Engine**.
- **Led a team of 3 engineers**, facilitating the **implementation of characters and game physics** while closely communicating with game artists. Also assisted game artists with level design and Unity-related issues.
- **Delegated high-priority programming tasks** and ensured delivery of a demo within the 48-hour deadline.