

Alan Luu

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EXPERIENCE

- Xbox Software Engineer** | *Azure DevOps, C#, C++, Kusto Query, Python, XAML* Mar 2022 – Sep 2023
Microsoft Redmond, WA
- Developed 1-12 day reliability test suites for new Xbox consoles, covering hardware and software tests across various test stations, and ensured timely delivery to testing labs worldwide despite the departure of all senior engineers.
 - Addressed global Xbox test errors by troubleshooting environment, firmware, hardware, OS, and network issues, and documented solutions to ensure seamless daily testing worldwide.
 - Automated extraction of Xbox test logs to Excel, eliminating the need for manual data entry by lab technicians.
 - Rectified 54 C# and 68 C++ CodeQL errors in 4 Xbox repositories, eliminating security vulnerabilities, memory leaks, and enhancing code quality.
 - Refactored 41 legacy C# projects and migrated and pre-built their NuGet packages in a separate repository, cutting the main repository's build time by 6 minutes.
- Xbox Software Engineer Intern** | *ASP.NET, C#, CSS, HTML, JavaScript, U-SQL* Feb 2016 – Aug 2016
Microsoft Redmond, WA
- Conducted database analysis on Azure Cosmos databases and wrote SCOPE/U-SQL queries to extract Cortana's usage data on Xbox One, identifying key features from testers for the upcoming Cortana release on Xbox.
 - Developed statistical OnePulse websites to showcase Cortana data, supporting developers and managers in business and requirement decisions.
 - Implemented an ASP.NET frontend dashboard connecting my Cortana websites for swift employee access to relevant data.
- Co-Teacher** | *C#, CompTIA A+* Sep 2015 – Dec 2015
Year Up Redmond, WA
- Instructed Year Up students in C# and IT fundamentals through lessons every Friday and crafted study guides, preparing them for their internships and the CompTIA A+ certification exam.

EDUCATION

- Bachelor of Science in Computer Science** Sep 2018 – Aug 2020
University of Washington Bothell, WA
- Data Structure and Algorithms, Hardware, Operating Systems, Project Management, Relational Databases
- Associate in Arts And Science** Jan 2014 – Mar 2018
Bellevue College Bellevue, WA
- ASP.NET Development, Database Theory, Object-Oriented Programming, Network Intro, Web Development Intro
- Apprenticeship in Data Analyst** Jun 2015 – Aug 2016
Year Up Redmond, WA
- Completed Data Analyst courses, leadership and professionalism training, and a 7-month Microsoft internship.

PROJECTS

- Job Search** | *Expo, JavaScript, Rapid API, React Native* Nov 2023 – Dec 2023
- Developed a cross-platform Android & IOS app, enabling users to search and apply for jobs.
 - Utilized React Native for the frontend and RapidAPI for the backend.
- Notehub** | *Android Studio, Django, Git, Java, Python, XML* Jan 2020 – Mar 2020
- Worked with a classmate to build an Android app, enabling students to form groups and exchange course notes.
 - Implemented the frontend in Android Studio, accessing the Django backend server via partner's REST APIs.
- Disassembler** | *Assembly, EASy68K, Git* Jan 2020 – Mar 2020
- Worked with a classmate to build a program for reading and converting bytes into valid Assembly instructions.

TECHNICAL SKILLS

Languages: Batch, C#, C++, CSS, HTML, Java, JavaScript, Kusto Query, Python, SQL (MYSQL), U-SQL/SCOPE, TypeScript, XAML/XML

Frameworks: Bootstrap, Expo, Express.js, Next.js, React/React Native, Spring Boot, Tailwind CSS

Developer Tools: Android Studio, Azure DevOps, CodeQL, EASy68K, Eclipse, Git, Node.js, VS Code, Visual Studio