

Alan Luu

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EXPERIENCE

- Xbox Manufacturing Tests Software Engineer** | *C#, C++, Python, XAML* Mar 2022 – Sep 2023
Microsoft Redmond, WA
- Designed and implemented hardware and software reliability stress tests for new Xbox consoles, ensuring on-time delivery to Xbox testing labs worldwide despite the departure of all senior engineers on the team.
 - Troubleshooted worldwide Xbox test errors, ensuring uninterrupted daily testing by identifying firmware, hardware, OS, and network issues.
 - Automated Xbox test result extraction and export to Excel, eliminating manual data entry for 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 Data 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 crucial Cortana 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, Relational Databases, Hardware, Operating Systems, Project Management
- 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, Tailwind CSS

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