

# Alan Luu

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## EXPERIENCE

### Microsoft

Redmond, WA

*Xbox Manufacturing Tests Software Engineer*

*Mar 2022 – Sep 2023*

- Developed hardware and software reliability tests for new Xbox consoles utilizing C#, C++, and XAML, achieving a 96% on-time delivery to Xbox testing labs worldwide.
- Troubleshooted worldwide Xbox test errors, ensuring uninterrupted daily testing by identifying firmware, hardware, OS, and network issues.
- 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.

### Microsoft

Redmond, WA

*Xbox Data Software Engineer Intern*

*Feb 2016 – Aug 2016*

- Analyzed Cosmos databases and wrote SCOPE/U-SQL queries to fetch Cortana's daily usage data on Xbox One, identifying the most-used features among alpha and beta testers.
- Developed statistical OnePulse websites to showcase Cortana data, aiding developers and managers in business and requirement decisions.
- Implemented an ASP.NET front-end dashboard that linked all the OnePulse websites I created, facilitating swift employee access to Cortana data.

### Year Up

Redmond, WA

*C# and CompTIA A+ Co-Teacher*

*Sep 2015 - Dec 2015*

- Taught Year Up students the fundamentals of C# and prepared them for the CompTIA A+ test.
- Presented lessons every Friday from 12 pm to 1 pm, while creating and distributing study guides to students.

## EDUCATION

### University of Washington

Bothell, WA

*Bachelor of Science in Computer Science*

*Sep 2018 – Aug 2020*

### Bellevue College

Bellevue, WA

*Associate in Arts And Sciences*

*Jan 2014 – Mar 2018*

### Year Up

Redmond, WA

*Apprenticeship in Data Analyst*

*Jun 2015 – Aug 2016*

## 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 front-end and RapidAPI for the back-end.

### Notehub | Android Studio, Django, Git, Java, Python, XML

Jan 2020 – Mar 2020

- Collaborated on a two-person team to develop an Android app for college students to create study groups and share course notes.
- Implemented the front-end in Android Studio, accessing the Django back-end server via partner's REST APIs.

### Disassembler | Assembly, EASy68K, Git

Jan 2020 – Mar 2020

- Collaborated on a two-person team to develop a program for reading and converting hexadecimal bytes into valid MC68000 Assembly instructions.

## TECHNICAL SKILLS

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

**API Tools:** Postman, RapidAPI