

# Wesley Hu

San Diego | (626) 383-5391 | [wesleyhuhuhu@gmail.com](mailto:wesleyhuhuhu@gmail.com)  
[LinkedIn](#) | Personal Website: [wesleyhuhuhu.github.io/portfolio/](https://wesleyhuhuhu.github.io/portfolio/)

## SKILLS

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**Languages:** C/C++, Java, Python (TensorFlow, scikit-learn), C#, HTML/CSS/JavaScript, Node.js, SQL

**TechStack:** Git, Atlassian, Visual Studio/VSCode, Jenkins, JetBrains, MongoDB, JUnit, Jest-Puppeteer, Webpack

**Leadership:** President of Programming Club, President of Maker Hub

## EXPERIENCE

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### BAE Systems

January 2024 - Current

*Associate Software Engineer II*

*San Diego*

- **Engineered an internal tool** to enable formatting of proprietary ATLAS code, enabling engineers within and on the field to easily and efficiently debug code in automatic test equipments
- **Enabled other engineers** to efficiently **debug** the ATLAS language by **implementing a complete GUI** of formatting options within an internal proprietary debugger
- **Retrofitted and recommissioned** old B-1 bomber stations by **designing, developing, and testing firmware** in conjunction with hardware engineers
- **Developed, sustained, and resolved** multiple firmware projects to improve the inspection of F-16 avionics
- **Collaborated** with a multitude of programs and levels of engineers to **successfully deploy firmware updates** for F-16 customers

### XiFin, Inc.

January - March 2023

*Software Engineer Intern*

*San Diego*

- **Identified multiple failures** within XiFin product software with **Selenium** and **WebDriver** automation
- Utilized **Jenkins** to **automate** test cases and creating new parameters to **ensure < 5% error rate**
- **Lowered Jenkins runtime** by **optimizing Java algorithms** and **redeveloping deprecated code**
- Worked within a team of QA engineers to create a new **REST testing** environment for new automation testing that **avoids jeopardizing memory/data** in the runtime environment after tests
- Enabled additional frontend to backend integration by **creating and updating database access objects** that communicate with an **SQL** server

## PROJECTS

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### Bae-o-meter.com | | HTML, CSS, JavaScript

- Composed a **seamless UI** by utilizing **CSS transitions** and have hidden and shown elements
- Created a **modern and user-friendly UI/UX** in CSS by designing the application in **Figma**
- Implemented a **JavaScript test suite** using **Jest + Puppeteer** for complete **unit and E2E testing** for **100% coverage**, controlled through **Github Actions**
- Enabled **error-free deployment**, integration, and maintenance by **implementing CI/CD pipelines**
- Operated within an **agile environment** with Scrums, standups, and sprints to enable successful project release

### Resume Database | | C#, .NET, MongoDB

- Created a **WPF application** with **C# and .NET** to create, read, update, and delete (**CRUD**) PDFs (resumes)
- Streamlined PDF management by **utilizing MongoDB** to store the PDFs, improving search performance
- Connected the **frontend .NET GUI** to the backend database of **MongoDB with C#**

## EDUCATION

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### University of California, San Diego

**San Diego**

*Bachelor of Science in Computer Engineering*

*December 2023*

**Relevant Coursework:** Advanced Data Structures, Algorithm Design & Analysis, Software Engineering,

Discrete Math, Web Development, Database Systems, Networks, Operating Systems, Computer Architecture