Wesley Hu

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EDUCATION

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

SKILLS

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

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

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#**