

# Haichao Yang

Boston, MA

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## Skills

**Languages:** C/C++, Python, Java, Kotlin, HTML/CSS, JavaScript, TypeScript, R, SQL

**Technologies:** React.js, MySQL, MongoDB, Git, Node.js, RESTful API, Linux, Bash, Docker, Jenkins

**Frameworks:** Angular, Electron, Flask, Beautiful Soup, Express.js, FastAPI, Bootstrap

**Tools:** VS Code, Android Studio, Eclipse, PyCharm, Figma, Microsoft 365, Redmine, GitHub/GitLab, Slack, Raspberry Pi

**Design:** UI/UX Design, Software Design

**Project Management:** Agile, Scrum, CI/CD

**Soft Skills:** Collaboration, Communication, Troubleshooting, Problem-solving, Time Management

## Work Experience

### Planar Systems

Hillsboro, OR

Software Engineer Intern

Mar 2022 – Sep 2022

- Developed an internal website using HTML, CSS, Angular/TypeScript to provide new functionalities and polish the UI/UX as well as fixing bugs on backend server using Python, **achieving 40% improvement on app performance**
- Updated a video generator installer to enhance installation process on upgraded Raspberry Pi using Python, Linux/Bash script, **increasing install performance by 50%**
- Built a desktop application framework utilizing Angular/Electron for frontend, FastAPI and Python Flask for backend; empowered developers to adhere to a unified development style for **5+ tools**
- Originated a cloud monitoring agent prototype operating Python to attain cloud monitoring over local devices; **improving 40% efficiency** of monitoring on devices, **launched in 70% showrooms** in U.S. offices of Planar
- Coordinated weekly software Scrum meetings with **8 other senior engineers** and gained exposure to product development life cycle
- Utilized GitLab and Jenkins as CI/CD tools, Redmine as project tracker and documentation tool

### Aviagames Inc

Remote

Industry Analysis Intern

Jun 2021 – Sep 2021

- Executed in-depth market research for **500+ game projects**, identifying emerging trends; leveraged findings to guide employer in adopting a new vision
- Generated a web scraper using Python Beautiful Soup to automate data collection, **reducing 50% research time**, and **strengthening 35% efficiency** for employer in industry analysis work
- Delivered impactful reports on industry and game analysis, offering a complete vision of products; findings informed strategic decision-making
- Proposed design ideas for new games, motivating developers with novel ideas and remedied disadvantages, resulting in **improving user acquisition by 20%**

## Projects

### Tarpaulin App | Oregon State University

Jun 2023

- Led a team to build and integrate RESTful APIs using Node.js and Express.js; enabled user actions, pagination, authorization, and rate limiting across **10+ endpoints**
- Implemented a robust MySQL database system to store and manage API data
- Optimized API deployment process through service containerization with Docker

### Forms of Migration Website | Oregon State University

Apr 2023 – Jun 2023

- Executed the UI/UX design with wireframes and mock-ups using Figma, driving a decrease in user onboarding time
- Collaborated with a cross-functional team on GitHub to create a user-friendly web application, utilizing HTML, CSS and React.js for frontend
- Spearheaded features including advanced search functionality, comprehensive listings, seamless navigation; integrated with backend to ensure smooth app performance using Node.js, Express.js and Axios API

## Education

### Boston University

Boston, MA

Master of Science in Software Development

May 2025

- **Courses:** Data Communication and Networks, Information Structures with Java, Web Application Development

### Oregon State University

Corvallis, OR

Bachelor of Science in Computer Science

Sep 2018 – Sep 2023

- **GPA:** 3.83/4.0
- **Courses:** Algorithms, Data Structures, Introduction to Database, Operating Systems, Web/Mobile/Cloud Application Development, Software Engineering, Information Visualization, Programming Languages
- **Honors:** Dean's Honor List in College of Engineering at OSU