Eujean Lee

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Education

University of Washington, Seattle - *B.S in Computer Engineering* Expected Dec 2024

- **GPA**: 3.83/4.00 | **Dean's List** for 9 quarters
- **Related Coursework**: Data Structures & Parallelism, Algorithms, Distributed Systems, Operating Systems, Artificial Intelligence, Computer Vision, Computer Security, Data Management, Database Internals, Game Development

Skills

Languages: Java, Python, C/C++, SQL, JavaScript, TypeScript, HTML, CSS, SystemVerilog
Tools: React.js, React Native, Node.js, Git, Linux, AWS, Microsoft Azure, Firebase, Xcode, JUnit, NumPy, PyTorch, Spark
Spoken Languages: English (Fluent), Mandarin Chinese (Bilingual), Korean (Bilingual)

Experience

Software Engineering Intern - *Soma Reality* Jun 2024 - Sep 2024

- Developed a cross-platform mobile social media app from initial **Figma** designs into functional features using **JavaScript**, **React Native**, and **Xcode**, ensuring smooth performance on both Android and iOS
- Achieved a **25%** reduction in data retrieval time by integrating **Firebase** as the backend with **JavaScript** and building a pipeline that manages and displays real-time data instantly in the UI
- Developed a responsive layout and component-based architecture using **React Native**, enabling reusable UI components and enhancing the frontend with functional features such as tab navigation and smooth screen transitions
- Collaborated closely with the engineering and UI/UX team, enhancing the design process and actively participating in code reviews and pull requests to ensure high-quality code and cohesive integration of design and functionality

Teaching Assistant - *UW Paul G. Allen School of CSE* Mar 2024 - Present

- Taught digital circuit design, **FPGA**, and **SystemVerilog** concepts during weekly quiz sections
- Collaborated with the professor and co-TAs to create weekly section materials adopted for future course iterations
- Provided debugging support during regular office hours, conducted in-person lab demos, and answered conceptual questions on the online discussion board for **50** students

Research Assistant - *UW Makeability Lab* Jun 2023 - Present

- Enhanced the visual saliency of sports equipment for low vision players with AR glasses and real-time computer vision, achieving an **85%** object detection rate by developing a **Python** model for automated dataset sampling
- Achieved high performance in segmenting objects, resulting in a **91.8%** segmentation mean average precision, by extracting frames with **YOLOv8** and labeling **5,000+** frames using **Roboflow**
- Co-authored demo papers published at **UIST 2023** and **ISMAR 2024** (to appear)

Software Engineering Intern - *Rasplayer* Jul 2019 - Aug 2019

- Drove over **200** weekly visitors and achieved a **65%** engagement rate by designing and developing a tribute page and survey forms, showcasing strong frontend design skills
- Achieved a **20%** increase in mobile traffic and a **15%** boost in overall engagement by collaborating with the design team to enhance the company's website aesthetics using **HTML**, **CSS**, and **JavaScript**

Projects

CineMate | *Python, AWS(Lambda, Lex), React.js* Sep 2024

- Developed an **AWS Lex bot** for natural language understanding that enables users to search for movies by title and apply filters based on the release year
- Implemented slot elicitation, dialog management, and **AWS Lambda** for back-end logic, including API integration for fetching data from external sources using **Python**, and created front-end using **React.js** for the user-friendly interface

Mixed Up Power Ups | *Haxe, Flixel* Mar 2024

- Designed and developed a dynamic platformer game using **Haxe** and **Flixel**, achieving **250+** plays
- Incorporated **30+** user feedback to enhance mechanics, level design, and user interface, resulting in a **29%** increase in level retention rate

Dotorii: Scan Your Plan (Honorable Mention at Dubhacks) | *Python, Swift, OCR* Oct 2023

- Implemented an iOS application to enhance accessibility, allowing users to capture posters or scan QR codes to integrate information into Google Calendar
- Used **Swift** and **Python** for API connections, integrating GPT and Google Cloud API to create a responsive interface that securely manages and stores data

Flight Booking Application | *Java, SQL, Microsoft Azure* Mar 2023

- Created a **Java** application for account creation, flight booking/cancellation, and secure transactions via command-line
- Implemented **SQL** transactions and utilized **Azure** SQL Server for efficient querying of databases, ensuring simultaneous use by multiple customers