

# 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, Digital Circuits & Systems

## EXPERIENCE

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

Mar 2024 - Present

- Taught digital circuit design, **FPGA**, and **SystemVerilog** concepts during weekly quiz sections, and collaborated with the professor and co-TAs to develop weekly section materials, which were 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 a **demo paper** published at the 2023 ACM Symposium on UIST

**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
- Integrated **Firebase** as the backend using **JavaScript**, restructuring user and conversation fields to manage data in a real-time cloud-based database, reducing data retrieval time by **25%**
- Built a pipeline for frontend-backend communication, integrating real-time data from **Firebase** into the UI to display dynamic content such as updated conversations instantly
- Developed a 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

**Software Engineering Intern - Rasplayer**

Jul 2019 - Aug 2019

- Developed and enhanced the company's website aesthetics using **HTML**, **CSS**, and **JavaScript**, achieving a **20%** increase in mobile traffic and a corresponding **15%** boost in overall website engagement
- Pioneered the development of a tribute page and survey forms, showcasing adeptness in frontend design and driving **500+** weekly visitors and outstanding **90%** participation rate

## 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 movie data from external sources using **Python**
- Created a frontend for the bot using **React.js**, integrating the Lex bot with a user-friendly interface

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

Mar 2024

- Developed a dynamic platformer game using **Haxe** and **Flixel**, achieving approximately **250** plays, demonstrating user engagement, and incorporated **15+** user feedback to improve mechanics, level design, and user interface

**Dotorii: Scan Your Plan** | *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 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 **Microsoft Azure** SQL Server for efficient querying of flight and customer databases, ensuring simultaneous use by multiple customers without encountering conflicts

## 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, Mandarin Chinese, Korean