Jeffrey Luu

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EDUCATION

California State University - Long Beach   Long Beach, CA
M.S. Computer Science   *Aug. 2024 – Expected Graduation: Dec. 2025*
Coursework: Artificial Intelligence, Software Engineering, Programming Languages, Search Engine Technology

University of California San Diego   San Diego, CA
B.S. Human Computer Interaction, Minor in Computer Science   *Oct. 2020 – June 2023*
GPA: 3.52
Coursework: Front-end Development, Back-end Development, User-Interface Design, Data Science, Algorithmic Design & Analysis, Systems Programming, Operating Systems

EXPERIENCE

Graduate Research Assistant   Sept. 2024 – Present
California State University - Long Beach   *Long Beach, CA*
- Conducting research on multi-agent reinforcement learning to improve pathfinding in simulations
- Designed and tested Unity simulations to enhance AI decision-making and coordination
- Applied machine learning to train agents for complex tasks and optimize their behavior
- Collaborating on reports and contributing to academic discussions

Technical Program Manager   Jan. 2022 – June. 2022
CodePath   *San Diego, CA*
- Managed course logistics, including scheduling sessions, reviewing submissions, and collaborating with managers
- Worked closely with Regional Program Manager and CodePath.org team to address student feedback
- Created Kotlin-based curriculum for app development and provided technical support to students
- Promote enrollment via presentations and info distribution leading to 80+ student applications

PROJECTS

BrainWave | *Next.js, Typescript, MongoDB*   Feb. 2024 – Mar. 2024
- Built an intelligent note-taking application with integrated AI Chat functionality, powered by Next.js
- Developed AI chat feature enabling users to communicate with their notes seamlessly, enhancing productivity
- Integrated intelligent document retrieval for information extraction, improving information access
- Enhanced user interaction with themes and secure access controls, ensuring usability and data protection

Web Analytics Dashboard and Collector Script | *Express JS, Node JS, MySQL*   May. 2023 – June. 2023
- Designed an analytics dashboard to visually represent page load time metrics across various devices
- Automated the collection and transfer of website analytics data to a database, increasing operational efficiency
- Developed a user management grid to organize and handle information, simplifying data administration
- Implemented a secure authentication system, providing administrators with control over user permissions

ZooSeeker | *Java(Android)*   Mar. 2022 – May. 2022
- Developed a trip-planning app for the San Diego Zoo that optimizes routes for minimal walking
- Worked in an agile development team to ensure efficient collaboration and productivity among 6 programmers
- Implemented an efficient route finder using geographic location data, saving time for users
- Built a robust testing suite to ensure the quality and reliability of software

SKILLS

Programming Languages: Python, Java, C/C++, Javascript, Typescript, HTML/CSS
Libraries and Frameworks: React, Next.js, Node.js, Express.js, Flask, Astro, Numpy, Pandas, Pytorch
Tools and Platforms: Git/Github, Github Actions CI, Linux, MongoDB, SQL, Postman, Jupyter Notebook
Design & Research: UX Design/Research, UI Prototyping & Wireframing, Usability & Accessibility Design