

# Kyle Pan

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## EDUCATION

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### University of California, Irvine (UCI)

Bachelor of Science, Computer Science

Dec. 2024

Irvine, CA

- GPA: 3.7/4.0; Regents' Scholarship
- Relevant Coursework: Information Retrieval, Machine Learning, Computer Networks, Algorithms, Web Development

## SKILLS

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- **Languages:** C++, C, Python, SQL, Java, C#, Javascript, HTML, CSS
- **Developer Tools:** Git, Linux, Jira, Azure, Docker, AWS, MongoDB
- **Software/Frameworks:** EDK II, Dot Net, Pytorch, React, NodeJS, Redux, Express

## WORK EXPERIENCE

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### Intel Corporation

Software Engineer Intern

Jan. 2024 – Present

Folsom, CA

- Developing a new UEFI shell-based test application in C within an EDK II environment in Linux for PCI Express pre and post-silicon, cross-platform validation to expedite Intel's chip verification for nearly 2 billion chips per year
- Solo implementing backward compatibility on a power management validation tool for 2 programs in Python to assist 100+ customers with transitioning to the newer tool

### United Parcel Service

Software Engineer Intern

Sep. 2022 – Sep. 2023

Baltimore, MD

- Solo created a conversion script to translate millions of shipping billing information per day from XML to JSON using Python to automate switching products for developers
- Developed 20 new RESTful APIs and converted 30 existing APIs to RESTful APIs in C# for 100+ external clients
- Designed and built log files in C# to provide developers with information like timestamps, API calls, errors, etc.

### Cloudstream Medical Imaging

Software Engineer Intern

Jul. 2022 – Sep. 2022

San Diego, CA

- Added 5 post-processing digital filtering techniques in C++ to remove noise from an ultrasound image
- Developed a linear conversion between dB and PPM to help users adjust the switch between different sound measurements
- Created an ultrasound v-wave in C++ to decrease the reflected wave distance and therefore increase image quality

### ICS Student Council: PeterPortal

Software Engineer

Sep. 2021 – Sep. 2022

Irvine, CA

- Worked with developers to build a web application in React, ExpressJS, and Redux to provide ~40,000 students with course information at UCI
- Designed and built PeterPortal into a mobile-friendly website with React to cater to 1000+ monthly mobile users

### Commit the Change: Find Your Anchor

Software Engineer

Sep. 2021 – Jun. 2022

Irvine, CA

- Collaborated with developers and designers to build a web application to display the 30,000+ gratitude boxes in all 50 states for a non-profit suicide prevention organization in React
- Responsible for the integration of a visual map and importing 1000+ gratitude box information using SQL

## PROJECTS

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### Fabflix Movie Database Web App

- Fully built architecture from scratch: set up AWS instance, Tomcat, MySQL, and imported a large database of movies
- Implemented ~20 medium features: full-text search, reCAPTCHA, SHA256 hashing, protection against SQL injection
- Improved performance by 50% with MySQL connection pooling, MySQL replication, and Apache load balancing