

# Patrick Le

SOFTWARE ENGINEER · PRODUCT MANAGER · WEB DEVELOPER

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## Skills

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**Programming Languages:** C++, JavaScript, Java, Python, SQL

**Frameworks & Tools:** Git/Github, REACT, REACT Native, GraphQL, Google Protobufs

**Leadership Work:** ACM@UCR Vice Chair (17/18), ASUCR BCOE Senator (17/18), Citrus Hack Sponsorship Chair (16/17)

## Work Experience

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### Microsoft - Office Experience

SOFTWARE ENGINEER

*Expected Jul 2019*

*Redmond, WA*

### Amazon - Alexa Smart Home Mobile

SOFTWARE DEVELOPMENT INTERN

*Sept 2018 - Dec 2018*

*Seattle, WA*

- Worked on the Alexa Smart Home Mobile GUI using **React Native**, and **Native Android & iOS**
- Implemented Smart Home devices group's & category's entities controls such as power, brightness, color, locks, & temperature
- Feature is expected to bring customer's coverage from 75% to 99% by adding new capabilities to over 1.4 million customers.

### Informatica - Cloud Services

SOFTWARE ENGINEER INTERN

*June 2018 - Sept 2018*

*Redwood City, CA*

- Migrated large parts of Informatica's ICS to **REACT** which improved full rendering performance from 2,000ms to 100ms
- Contributed to Informatica's internal **REACT** UI framework which is currently being used throughout their web products.
- Integrated brand new **REACT** UI component with Informatica's **Java** back-end servers and multiple databases

### Associated Students of UC Riverside

SOFTWARE LEAD | ENGINEERING SENATOR

*June 2017 - June 2018*

*Riverside, CA*

- Implemented a **Flask** back-end server and **SQL** database for managing over 5K student records/votes
- Implemented full stack features of the ASUCR Elections website in **React** which received over 6K unique foot traffic.
- This project supported a candidate pool of 60+ individuals, 20K+ students body and saving \$8K+ in unnecessary spending

### Embedded System Research Lab @ UCR

UNDERGRADUATE RESEARCHER

*Sept 2017 - June 2018*

*Riverside, CA*

- Worked under a grad student on planarization of non planar graphing algorithms and graphing optimization for microfluidics
- Implemented bug fixes and contributing several graph routing algorithms based on 2D space efficiency using **C++11**.

### Zodiac Inflight Innovations - Content Delivery

SOFTWARE ENGINEER INTERN

*June 2017 - Sept 2017*

*Brea, CA*

- Implemented a conversion tool for backwards compatibility between tablets and content distribution APIs systems
- The conversion tool can fully blend a 1+ terabytes content set from 16 hrs to 1hr by using **multi-threading** and OS optimization.
- Worked on the content distribution team and contributed several distribution functionality using **Google Protobufs** and **QT**.
- Tool is currently in production on Lufthansa, All Nippon Airways, and Fly Dubai with over 200+ planes flying

### Department of Computer Science & Engineering @ UCR

TECHNICAL GRADER

*Sept 2016 - Jan 2018*

*Riverside, CA*

- Implemented an automation grader tool for CS100 (Software Construction) that can grade hundreds of Github Repos
- Integrated Github Webhooks and Classroom using **Python3** for continuous grading upon each Git push.
- Decreased total grading time from 4+ days to 20 minutes and graded 1000+ students.

## Projects

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### Clarity - Pandora Podcast (Senior Design)

SOFTWARE DEVELOPER

- Integrating several RESTful & full stack features for content delivery, mp3 playback, content cloud play / streaming.

### Huddle - Software Scrum Cycle Management App

PRODUCT MANAGER / LEAD DEVELOPER

- Led a team of 4 in building a web application using REACT, Google's Firebase, and contributed several full stack features.

## Education

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### University of California, Riverside

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

*Spring 2019*

*GPA: 3.28*