Patrick Le

SOFTWARE ENGINEER · PRODUCT MANAGER · WEB DEVELOPER

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Work Experiences

Microsoft - Office Automation Resources
SOFTWARE ENGINEER

Jul 2019 - Present
Redmond, WA

- Implementing several cloud based tools/services to increase the productivity of over 6,000 Office Software Engineers.
- Owner of several internal systems in Office for the consolation of failures and resources for over 2 million jobs/week.
- Increased reliability and turnaround time for all engineering jobs by 30% and 45% respectively through statistical models.
- Built statistical based tools that saved thousands of jobs per month from failing due to system issues and flakiness.
- Utilized several technologies stacks such as **C#**, **C++**, **Perl**, **React.JS (Frontend)**, and **powershell**
- Models includes **CUSUM**, **Bayesian Inference**, **Hidden Markov Chain**, etc. (Probability calculation is protected by MSFT NDA)

Le's Capital
CHIEF INVESTMENT OFFICER

Sept 2019 - Present
Redmond, WA

- Manages over **$50K** and **$20K** in personal and client's investments respectively with focus on mid and large cap stocks
- The fund has beat the market by **20%**. The fund is currently focusing on maintaining wealth due to the corona-virus correction.
- Investments are made using an **automatic alerting system** (80%) and **trading bot** (20%) trying stocks, ETFs, options, and futures. Both uses complex statistical analysts to predict positive and negative movements in the market.

Associated Students of UC Riverside
ENGINEERING SENATOR | SOFTWARE LEAD

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

Internships

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 severs and multiple databases

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.
- Tool is currently in production on Lufthansa, All Nippon Airways, and Fly Dubai with over 200+ planes flying

Projects

American Cancer Society Stories of Hope Portal
FULL STACK DEVELOPER

- Used **AngularJs** and **Azure** to build a Story-Telling Web application for the American Cancer Society.
- **Winner of Top Project award in Microsoft Canada!**

Skills

Programming Languages: JavaScript, C++, C, 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)

Education

University of California, Riverside
BACHELOR OF SCIENCE IN COMPUTER SCIENCE

2019
GPA: 3.25