

# Huy Minh Tran

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## EDUCATION

**University of California Irvine**

*Bachelor of Science, Computer Science*

June 2020

GPA: 3.45

## RELEVANT COURSES

Lower-division: Principle in System Design, Data Structure Implementation & Analysis.

Upper-division: Database Management, Design & Analysis of Algorithm, Graph Algorithm, Information Retrieval, Artificial Intelligence, Principle in Operating System, Project in Database & Web application, Computer Networks, Machine Learning.

## SKILLS

Languages: (proficient) C++, Python, Java, (familiar) JavaScript, (familiar) C.

Tools/Technology: Postman, Git, Jira, REST, MySQL, Grizzly.

Libraries/Frameworks: Bootstrap 4, BeautifulSoup 4, Jackson, Jersey, (familiar) React.

## EXPERIENCE

**Unisys, Irvine, CA – Core Database Team (DMSII)**

June 2019 – Sept 2019

Software Engineer Coop

- Removed compile time warning of 9 components by 95% using ALGOL and DASDL.
- Accomplished a feature to improve user experience by allowing user to query database attribute in lowercase.
- Took on an additional task to enhance the runtime of a Python interface and improve code readability.
- Used Patch Manager, similar technology to GitHub to create patches and merge into code base.

## PROJECT

**peter\_parker**

Sep 2019 – Dec 2019

- Developed a crawler to crawl tens of thousands of web page and extract the appropriate information.
- Store more than 1 million tokens with its according web pages using inverted index.
- Used cosine similarity to rank the word in query and retrieve the related pages under 300ms.

**DELMD**

Sep 2019 – Dec 2019

- Designed a heuristic function for an AI checker to decide the best move to make against another checker.
- Optimized MiniMax by implementing Alpha-Beta Pruning to reduce the search time and allow the AI to search deeper.
- The project ranked 107/273 teams in term of winning points against other team's AI.

**Portfolio**

Jul 2019 – Aug 2019

- Designed and constructed using HTML, CSS and JavaScript to display bio, contact information and accomplished projects.
- Made responsiveness compatible with the desktop, tablet and mobile and improved UI/UX by integrating Bootstrap 4.

**FabFlix**

Mar 2019 – Jun 2019

- Established Grizzly to host front-end and back-end of an E-commerce single-page application.
- Implemented the back-end with 32 core endpoints using Java, SQL and PayPal API.
- Designed and built the front-end from scratch with only Ajax and jQuery.

## ACTIVITY

**Hackathon UCI 2020**

January 2020

**ZotReg**

- Partnered with 2 other students to implemented a web application that allows Computer Science student at UCI to see clearly prerequisites of a chosen course.
- Implemented a Python program to scrape and parse the prerequisite information from UCI ICS website
- Used MaterializeCSS to enhance the user's experience in the front-end.