

Joo Yong Daniel Chung

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University of Illinois at Urbana-Champaign (UIUC)

Bachelor of Science in Computer Engineering - Highest Honors

Bachelor of Science in Statistics - Highest Distinction

Minor in Computational Science

May 2021

GPA: 3.82/4.00

- James Scholar Honors, IEEE Eta Kappa Nu (HKN) Honors Society, Certificate in Data Science, Jules D. Falzer Memorial Scholarship, Sargent and Lundy Engineering Scholarship, TechnipFMC Scholarship

WORK EXPERIENCE

Kilpatrick Townsend & Stockton

San Francisco, CA

Patent Engineer

August 2021 - March 2023

- Facilitated over 50+ meetings with clients to develop inventive concepts to enhance patentability of the inventions and provide recommendations for filing different types of applications including provisional, non-provisional, etc.
- Drafted over 50+ different patent applications based on the inventive concepts drawn with the inventors on different engineering concepts that include detailed explanations of the inventions, scope of legal protections (claims), etc.
- Composed over 10+ instructional letters and recommendations to foreign law associates providing descriptions on which parts of the claims to amend and reasons behind the amendments in response to foreign office actions
- Conducted interviews with patent examiners to amend claims and clarify concepts of the inventions in response to any questions raised by the examiner in the office action, resulting in granting of the patent applications

Fernandez and Associates

Las Cruces, NM

Patent Engineer Intern

July 2020 - August 2020

- Conducted a patent search of over 5+ inventions with the firm's patent attorney to determine whether the inventions infringe on other patents, and if so, discussed with the attorney to modify the scope of the inventions
- Filed a continuation application by drafting new claims that cover different scopes of the invention - resulting in a successful admission of the continuation application by the U.S. Patent Trademark Office (USPTO)

Raytheon Missile System

Tucson, AZ

Software and Electrical Engineering Intern

May 2019 - August 2019

- Registered 10+ new circuit component models in C++ that are not inscribed in the circuit software with inputs (e.g., max/min voltage) given in the component datasheets, resulting in more than 15% increase in simulation speed
- Developed over 10+ reuse design blocks in C++ that are commonly used in circuit schematic design, leading to reduction in the cycle time of building new circuits and preventing the duplication of work from electrical engineers
- Analyzed the newly redesigned amplifier circuits for Evolved SeaSparrow Missile (ESSM) to identify schematic mistakes in the design and created general block diagrams for different technical design reviews

University of Illinois - Graduate Upper-Division Hall

Urbana, IL

Resident Advisor

August 2018 - May 2021

- Developed a safe and inclusive environment conducive to student learning and academic success by providing counseling, career advice, help with personal conflicts, and other resources to each of 150+ residents
- Led recruitment of new housing staff with the Resident Director by conducting a series of behavior interviews including assessment of interpersonal communication skills, conflict management skills, time management, etc.

PROJECTS

NBA Bracket Predictor 2023

- Created a web application that allows users to view each NBA team statistics, perform CRUD (create, read, update, delete) operations for their own prediction brackets, and share their prediction brackets by using unique user IDs
- Designed user-friendly layouts with Single Page Application UI in the Frontend by using React.js, JSX, and CSS
- Developed an extensive RESTful API using Node JS, Express JS, and MongoDB for the Backend

Prospectus - A Course Organization Tool

- Deployed a web application that provides users with an ability to search school courses, explore an interactive pre/post requisite course graph, create a wishlist, access recommended courses, view course descriptions, etc.
- Scrapped the University of Illinois course data by using Python, Pandas Library, and Jupyter Notebook
- Implemented MySQL database to store users' relevant course data in Google Cloud Platform (GCP)

ADDITIONALS/ACTIVITIES

- **Languages:** Python, R, C++, C, SQL, Mongo-DB, JSX, Javascript, HTML, CSS, Java, Bash
- **President of Electrical and Computer Engineering (ECE) Student Advancement Committee** - Administered all student-led ECE department events and coordinated department-wide events with course staff and professors
- **President of Engineering Outreach Society** - Oversaw the planning of weekly new engineering projects for elementary school students and coordinated volunteering meetings with the staff of the elementary schools