Joo Yong Daniel Chung

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University of Illinois at Urbana-Champaign   **May 2021**
Bachelor of Science in Computer Engineering - Highest Honors   GPA: 3.82/4.00
Bachelor of Science in Statistics - Highest Distinction
Minor in Computational Science
- 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

Raytheon Missile System   **Tucson, AZ**
Software and Electrical Engineering Intern   May 2019 - August 2019
- Analyzed the newly redesigned amplifier circuits for Evolved SeaSparrow Missile (ESSM) to identify any schematic mistakes in the design and created general block diagrams for different technical design reviews
- Programmed component models not inscribed in the circuit software with inputs given in the datasheet to enhance the simulation speed of circuits that utilize such parts, resulting in more than 15% increase in compilation speed
- Developed over 10+ reuse design blocks that would reduce the cycle time of building new circuits, prevent the duplication of work from multiple engineers, and accelerate the simulation time of different circuit software

Fernandez and Associates   **Las Cruces, NM**
Patent Engineer Intern   July 2020 - August 2020
- Conducted a patent search of over 10+ inventions with the firm's patent attorney to determine whether the inventions infringe on other patents, and if so, discussed with the inventors to modify the scope of the inventions
- Filed continuation applications by drafting new claims that cover different scopes of the invention - resulting in successful admission of the continuation application by the U.S. Patent Trademark Office (USPTO)

University of Illinois - Graduate Upper-Division Hall   **Urbana, IL**
Resident Advisor   August 2018 - May 2021
- Provided academic counseling, career advice, and help with personal conflicts to the residents by holding consistent, weekly conversations, resulting in none of the residents to be held on to academic probation on over 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, etc.

PROJECTS

Prospectus - A Course Organization Tool
- Developed a web application using React JS and SQL that provides users with an ability to search school courses, explore an interactive pre/post requisite course graph, create a wishlist, access recommended courses, etc.

Chicago Food Vendor Data Analysis
- Analyzed public food vendors inspection data in Chicagoland using R to determine existence of discriminatory practices, food vendors to avoid, safe food vendors, and conditions of school cafeterias to avoid for children

NBA Bracket Predictor 2023
- Created an NBA bracket predictor using React JS and Node JS that allows users to create their own prediction bracket, save their bracket, and share with others by fetching relevant data from NBA API and saving user progress

ADDITIONALS/ACTIVITIES
- **Language Proficiencies:** Python, R, Git, C++, C, Node JS, SQL, Mongo-DB, React JS, Javascript, HTML, CSS
- **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