Joo Yong Daniel Chung

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EDUCATION

University of Illinois at Urbana-Champaign (UIUC) **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

Marshall Gerstein & Borun **Chicago, IL**
Technical Specialist February 2024 - Current

- Perform detailed patentability searches to assess whether inventions are eligible for patent protection by analyzing relevant prior art, including patents and publications disclosing similar technologies
- Drafted 10+ patent applications of different inventions in various domains including Cryptography, Generative Artificial Intelligence, Databases, Blockchain, Large Language Models, and Medical Devices.
- Conducted 10+ interviews with patent examiners to discuss rejections raised in the Office Actions, assess the legal and technical arguments, and evaluate different strategies for overcoming those rejections
- Filed responses to 20+ Non-Final and Final Office Actions addressing rejections under 35 U.S.C. 101, 102, 103, and 112 received from the USPTO, resulting in the allowance of 10+ applications

Kilpatrick Townsend & Stockton **San Francisco, CA**
Patent Engineer August 2021 - March 2023

- Participated in 25+ invention disclosure meetings with clients to identify patentable inventive concepts from their inventions and provide legal advice on drafting and filing patent applications
- Drafted 25+ patent applications based on the inventive concepts drawn with inventors, covering a range of engineering topics and including claims, background, detailed explanations of the inventions, etc.
- Composed 20+ instructional letters and recommendations to foreign law associates, providing amendments to claims and arguments for the amendments to overcome foreign office actions

University of Illinois - Graduate Upper-Division Hall **Urbana, IL**
Resident Advisor August 2018 - May 2021

- Developed a safe and inclusive dorm environment conducive to student learning and academic success by providing counseling, career advice, emotional support, and other resources to over 150+ residents
- Administered the recruitment of new housing staff with the Resident Director by conducting a series of behavior interviews including assessments of communication skills, conflict management skills, etc.
- Collaborated with other resident advisors to foster an inclusive community through coordinating joint programs that promoted social justice, diversity, and community engagements for residents

Fernandez and Associates **Las Cruces, NM**
Patent Engineer Intern July 2020 - August 2020

- Conducted patentability searches for various inventions under the guidance of the firm's patent attorney, analyzing relevant publications to determine whether the inventions were novel for patent protection
- Filed 3+ continuation and divisional applications by drafting new claims that cover different scopes of the invention - resulting in successful granting of the 3+ applications by the USPTO

Raytheon Missile System **Tucson, AZ**
Software and Electrical Engineering Intern May 2019 - August 2019

- Registered 10+ new circuit component models that were not inscribed in the circuit software using inputs given in the component datasheets, resulting in a more than 15% increase in simulation speed
- Developed 10+ reuse design blocks commonly used in circuit schematic design, leading to a reduction in cycle time for building new circuits in the circuit software and preventing duplication of work
- Analyzed the newly redesigned amplifier circuits for Evolved SeaSparrow Missile (ESSM) to identify schematic errors in the design and created general block diagrams for technical design reviews

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LEADERSHIP ACTIVITIES

ECE Student Advancement Committee **January 2018 - May 2021**

President August 2020 – May 2021

- Strategized with the ECE administration staff and professors on behalf of ECE students to improve curriculum courses and organize more department events based on student feedback and concerns
- Established overall committee agenda and managed all student-led ECE department events including student advising sessions, technical elective consulting, resume review sessions, and town hall meetings
- *Previous Leadership Positions: Vice-President, Academic Committee Chair*

Engineering Outreach Society (EOS) **August 2017 – May 2021**

President August 2020 - May 2021

- Developed engaging weekly engineering projects for members to work with elementary students, teaching them fundamental engineering and science concepts such as buoyancy, bridges and support, etc.
- Administered logistics for delivering the weekly engineering projects to elementary school classes by coordinating with school administrators and EOS members to align on weekly availability
- *Previous Leadership Positions: Vice-President, Project Committee Head*

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
- Designed seamless and interactive web layouts using React.js to ensure a fast and responsive experience for users, incorporating JSX for component designs and CSS for visually engaging styling
- Developed a backend system that uses Node JS and Express JS to handle HTTP requests, and MongoDB for storing data, enabling smooth data sharing between the frontend, the backend, and the database

Prospectus - A Course Organization Tool

- Deployed a web application that provides users with the ability to search for school courses, explore an interactive pre/post-requisite course graph, create a wish list, access recommended courses, etc.
- Designed a course algorithm that recommends different courses to a user depending on the user's past courses and displays analytics including grade distributions of the recommended courses
- Implemented MySQL database to store users' relevant course data in Google Cloud Platform (GCP)

ADDITIONAL INFORMATION

- **Programming Languages:** Python, R, C++, C, SQL, Mongo-DB, JSX, JavaScript, HTML, CSS, Java
- **Languages:** Fluent in **Korean**; Volunteer experiences teaching Korean in Korean Learning Schools
- **Project Portfolio:** Details to the projects can be found in my website **https://dchung1940.github.io/**
- **Interests & Hobbies:** Coding, Hiking, Cooking, Playing Tetris (formerly ranked top 100 in Illinois)