Daniel Han
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EDUCATION

Rutgers University *New Brunswick, NJ, September 2021-May 2025*   3.85/4 GPA
Bachelor of Science in Computer Science, Bachelors in Korean
  Coursework: Data Structures, Linear Algebra, Computer Architecture, Discrete Math, Software Methodology, Design and
  Analysis of Algorithms, Intro to Data Science, Data Management, Databases, Internet Technology

SKILLS

Programming: Java, Python, C, JavaScript, TypeScript, SQL, HTML, CSS
Technologies: Simplicity Studio, Arduino, PostgreSQL, Django, Salesforce Marketing Cloud, PgAdmin4, Saleae Logic Analyzer, Kubernetes, Docker, Android Studio, Rancher, Pandas, NumPy, Matplotlib, Java Server Pages, Storybook, MySQL, FireZilla
Languages: English, Korean

WORK EXPERIENCE

Rutgers University   **New Brunswick, NJ**
First-Year Interest Group Seminar Peer Instructor   *August 2024-Present*
- Lead a seminar course with 25 freshmen focused on "Exploring Computer Science" for 10 weeks meeting once a week in person.
- Develop weekly lesson plans to keep students engaged, facilitate a comfortable learning environment, and give student feedback.
- Facilitate an inclusive classroom environment, encouraging open discussions, peer collaboration, and personalized guidance.

Resident Assistant   *August 2023-Present*
- Cultivate a supportive and inclusive student community, fostering positive interactions among a diverse population of 60 ethnically diverse undergraduate freshmen and upperclassmen within the residence halls.
- Work on duty 10-15 hours per week and develop engaging monthly programs and activities to promote personal growth and academic success among residents.
- Demonstrate strong problem-solving and conflict resolution skills by serving in an on-call rotation and addressing emergencies and student concerns as they arise.

Nestle Nespresso   **New York City, NY**
Front End Developer Internship   *June 2024-August 2024*
- Built and deployed 10 industry standard React components in TypeScript for Nespresso's homepage product listing page redesign.
- Increased total codebase commits by 20% and updated codebase documentation on Atlassian confluence to ensure consistency.
- Deployed Storybooks for UI components, wrote test cases using React testing library, and styled components with EmotionCSS..

Colgate-Palmolive   **Piscataway, NJ**
Full Stack Software Engineer Internship   *July 2023-November 2023*
- Built a web application using Django that aggregated customer electric toothbrush data from Kolibree for internal reports.
- Managed subscriber based emails in Salesforce Marketing Cloud through automating API calls and testing with Python scripts.

Embedded Systems Developer Internship   *January 2023-May 2023*
- Designed and developed IoT embedded systems using a Silicon Labs EFR32BG22 MCU wired to a Bosch BME688 sensor.
- Developed C code in Simplicity Studio 5 IDE to configure I2C communication and provide documentation for future use.
- Performed Bluetooth low energy operations with MCU and configured GATT protocols to test sending and receiving data over BLE.

PROJECTS

IOS Augmented Reality Coffee Machine App (Swift)
- Created an IOS app that employs ARKit API to use a device's camera, detect surroundings, and place a 3D Nespresso machine.
- Implemented features such as plane detection, object scaling, and rotation to allow users to interact with the 3D model.
- Utilized SceneKit for rendering the 3D model, ensuring smooth integration and realistic object behavior within the environment.

Online Auction System Web Application (Java, HTML, MySQL)
- Designed a relational database system for an online auction app using MySQL, ensuring efficient data management and retrieval.
- Developed a user interface with HTML, Java, and JavaScript, facilitating user registration, login, and dynamic item search.
- Integrated backend connectivity with JDBC which communicated with the app locally using Tomcat.

Pizza Store Android Application (Java, Android Studio)
- Developed an Android pizza ordering app for Pixel 7 with UI elements Toast, AlertDialog, ImageView, Spinner, and ListView.
- Enhanced functionality with 2 Android Activities, using a Singleton design pattern, and JUnit for blackbox testing.
- Customized app with 10 specialty pizza options, current order, store orders, and checkout UIs, and a unique launcher icon.

Personal Portfolio Website (JavaScript, HTML, CSS)
- Utilizes JavaScript's React library, deployed with GitHub Pages to create a responsive portfolio website with expandable cards, looping animations, and interactive interfaces.
- Implements React APIs such as Framer Motion, Material UI, and EmailJS to create responsive animations, an elegant front end design, and an email system to receive emails from viewers.

AWARDS & ACTIVITIES

Taco Bell Summer Conference Leader *July 2023, 2024*	**Rutgers Dean's List** *Fall 2021-Present*
Rutgers Move In Team Volunteer *Summer 2022*	**Rutgers Club Ultimate Frisbee** *2021-Present*
Rutgers Honors Program *2022-Present*	**Taco Bell Live Mas Scholarship Recipient** *2021-2024*