Donghyeon (Don) Lee

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Experienced in both front and backend technologies. Hungry to learn and quick to adapt.

EDUCATION

University of California, Berkeley   Sep 2016 - May 2019
Electrical Engineering and Computer Science B.S.

- Graduated in less than 3 years in one of the school's most rigorous programs (GPA: 3.34)
- Selected and worked as a student instructor for multiple CS courses guiding and leading 30 students in each lab
- Courseworks: Data Structures, Algorithms, Internet and Protocols, Database, Data Science, AI/ML, Security

EXPERIENCE

Sergeant   Apr 2021- Dec 2022
Republic of Korea Army, Seoul, South Korea

- Managed a comprehensive range of security issues within the national transportation system on a daily basis
- Led communication and built systems to collaborate with the law enforcement agencies and shortened response time by 30%. As a result, systematically contributed to identification and responses to emergency situations.

Software Engineer Intern, Full-Time   Jan 2020 - May 2020
SevenRooms, New York, USA

- Worked in a team of 7 developing and providing a holistic hospitality booking and management app.
- Worked as an independent contributor on user experience improvement projects impacting over 1 million users, focused on web application development and internal process improvements.
- Select experience:
  - Improved UX by simplifying calendar navigation for the guest management platform. Built new React components on the web app redirecting the user based on current time and location (React.js, Redux.js).
  - Created an internal alert system to automatically detect clients' POS server malfunction and notify relevant teams (Python). By significantly reducing manual work, reduced response time by 50%.

Software Engineer Intern, Full-Time   Jul 2019 - Dec 2019
InHouse Produce, Los Angeles

- B2B indoor farming agtech startup, growing and delivering high-end crops with automated and sustainable tech..
- Built and structured systems for indoor farming as one of the first 5 engineers, focused on remote monitoring software for hydroponic crops (soil-free indoor farming technology).
- Select experience:
  - Built and implemented a remote monitoring system from scratch to capture and upload crop images to AWS S3 server (Raspberry Pi & Python). By removing physical visits, improved workflow and resource allocation which was crucial during the nascent stage of the company.
  - Designed a continuous integration and deployment (CI/CD) system to remotely deploy codes to distributed clients' Raspberry Pi devices, eliminating the need for on-site software updates.

PROJECTS

- Chatbot Project (Python / 2023): Utilized Python's Chatterbot and NLTK libraries to develop a functional chatbot with an emphasis on daily conversations. Currently implementing a graphical user interface (GUI) using the Tkinter library for enhanced user experience. The chatbot was trained using a combination of personal chat messages and online datasets of English dialogues.
- Mini Database Management System (Java / 2017): Collaboratively designed and implemented a mini relational database management system (DBMS) along with a domain specific language (DSL) that allows interaction with the database system. The DSL supports all core functionalities of SQL.

SKILLS

- Languages: Python, Java, C/C++, SQL, HTML/CSS, JavaScript (Node.js, React.js, Redux.js)
- Tech: Unix/Linux, Git, Docker, Google Closure/App Engine, AWS, Raspberry Pi, Latex, Trello, Jira, Confluence

PERSONAL

- Languages: English (native), Korean (native), Japanese (beginner)
- Hobbies: sports and weightlifting, cooking, video games, guitar, reading