

Luke Son

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EDUCATION

Rutgers University - New Brunswick

Bachelor of Science in Computer Science

New Brunswick, NJ

Sep. 2025 – May 2028

San Diego State University

Exchange Student

San Diego, CA

Jan. 2025 – May 2025

Sejong University

Bachelor of Science in Computer Engineering

Seoul, South Korea

Mar. 2021 – Dec 2024

EXPERIENCE

Social Security Agent

Seoul Metropolitan Fire & Disaster HQ

Dec. 2022 – Sep 2024

Seoul, South Korea

- Managed 20+ years of operational and volunteer data, improving reporting accuracy by 25% and supporting efficient disaster response decision-making; utilized SQL for querying and organizing large datasets.
- Assisted in oversight of 300+ computers, resolving 95% of technical issues using diagnostic tools, ensuring a 99% uptime for the disaster response network system.
- Configured network equipment and secure intranet for a disaster command post during the National drill, enabling 100+ personnel to access critical systems 30% faster through optimized VLAN setup.

Co-Founder & Digital Experience Lead

Carrierfree

Mar. 2023 – Dec 2023

Seoul, South Korea

- Conceptualized and developed a web platform for winter jacket rentals, utilizing AWS S3 and EC2 for scalable storage and deployment, catering to Southeast Asian tourists' need for cost-effective, hassle-free travel by using JavaScript, HTML5, CSS, JSON.
- Led a cross-functional team of 3 developers, coordinating sprints and code reviews, resulting in the agile delivery of the platform two weeks ahead of schedule.
- Implemented a multilingual interface with automatic language detection, enhancing user engagement and attracting 500+ unique visitors in the first two months.

PROJECTS

Reddit-style Backend Clone | *FastAPI, PostgreSQL, SQLAlchemy, Docker*

June 2025 – Present

- Developed secure REST API for user signup, post creation, and commenting with FastAPI and SQLAlchemy
- Designed relational models with Pydantic validation and password hashing using bcrypt
- Integrated PostgreSQL in Docker and structured project with routers/schemas for maintainability

AI Resume Analyzer | *Flask, Groq API, LLaMA3, Bootstrap, Jinja2, Render*

May 2025 – June 2025

- Built a web app that compares PDF resumes and job descriptions using LLaMA3 and DeepSeek via Groq API
- Extracted and embedded text from PDFs to compute semantic similarity between resume and job posting content
- Designed UI with Bootstrap and deployed to Render with modular Flask/Jinja2 structure

Conversion Rate Analysis | *Python, PyTorch, Google Analytics*

May 2023 – June 2023

- Analyzed 500+ customer interactions, including user behavior and website traffic patterns, to uncover bottlenecks in the conversion funnel.
- Designed and implemented machine learning models (Logistic Regression, Random Forest) to predict user conversion likelihood to optimize predictions and validate model performance.
- Utilized Python, PyTorch for data preprocessing, feature engineering, and model training, ensuring scalability and reproducibility in a large-scale code project.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL(PostgreSQL), HTML5, CSS, JSON, C

Frameworks: FastAPI, Flask, Bootstrap, Jinja2

Developer Tools: Git, GitHub, Docker, AWS (EC2, S3), Azure, Render, Uvicorn

Libraries: SQLAlchemy, Pydantic, bcrypt, PyTorch, TensorFlow, Matplotlib, Scikit-learn