

Ian Le

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EDUCATION

Duke University, Durham, NC | GPA: 4.0

Expected Graduation: May 2028

Bachelor of Science (B.S.) in **Computer Science**, concentration in AI and Machine Learning

Double major in **Statistical Science**, concentration in Data Science; Minor in **Mathematics**

Relevant coursework: Data Structures & Algorithms, Computer Architecture, Applied Machine Learning, Data Science & Statistics, Probability, Linear Algebra, Multivariable Calculus, Discrete Math

EXPERIENCE

Software Engineer Intern

May 2025 – Aug. 2025

Alleviate Health

San Francisco, CA

- Implemented message cache using **Redis** to queue consecutive inbound text messages for **batch processing**
- Built data dashboard with **SQL** and **React** to visualize and analyze recruitment pipeline of **250,000+** patients
- Developed **LLM analytics tool** to surface actionable insights and trends from **60,000+** human-agent conversations, enabling clinical recruitment managers to identify friction points via **natural language queries**
- Prototyped **AI-powered** medical data extraction & storage site with **Next.js**, **Supabase**, **TypeScript**, Reducto
- Wrote **80+ unit tests** using pytest to ensure reliability and robustness of core platform logic in **FastAPI** backend
- Contributed **30+ end-to-end tests** with **Playwright** to detect issues across stack and ensure system operations

Research Assistant

May 2025 – July 2025

Duke University, Chilkoti Lab

Remote

- Streamlined data preprocessing to support training of **ML classification models** in a biomedical engineering lab
- Designed and built a browser-based user interface using **React** for supervised, semi-automated image annotation
- Developed API using **Python** and **Flask** to connect frontend interface with **OpenCV** backend image processing

Software Developer Intern

Jan. 2025 – May 2025

College Swim Connect

Durham, NC

- Engineered RESTful API in **Flask** to enable efficient data transfer between **PostgreSQL** database and frontend
- Developed a web application frontend for an administrative management dashboard using **React** and Bootstrap
- Designed SQL database tables for tracking personnel and customer data to replace manual spreadsheet system

Programming Instructor

Dec. 2020 – Present

YouTube Channel: Future Programmer ([youtube.com/@FutureProgrammer360](https://www.youtube.com/@FutureProgrammer360))

- Planned, recorded, edited **24+ hours** of high-quality videos to accumulate **70,000+** views and **850+** subscribers
- Produced **130+** software development tutorials ranging from regular expressions to original data science projects

PROJECTS

Course Compass | React, MongoDB, FastAPI, AWS, Docker

[Link](#)

- Developed full-stack application using **FARM stack** for convenient lookup of university course information
- Created Chrome browser extension frontend in **React** that allows users to search for university course details
- Implemented scalable **MongoDB** database for rapid querying, text search, and fuzzy autocompletion
- Engineered RESTful API using **FastAPI** to allow efficient database access and data retrieval from the frontend
- Containerized application using **Docker** and deployed to the cloud through **AWS ECR** and **AWS Lambda**
- Collected data on **13,000+** university courses by developing adaptable web scraping pipeline in **Python**

Open Source Sublime Text Plugins | Python, Git, GitHub

[Link](#)

- Developed and maintained 7 open-source Sublime Text packages in **Python** with **8,000+** users
- Identified features missing from the existing **open-source** ecosystem and designed solutions to fill the gap

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, SQL, MIPS Assembly, HTML, CSS, R

Frameworks/Libraries: React, Next.js, Flask, FastAPI, OpenCV, Streamlit, scikit-learn, TensorFlow, PyTorch, pandas

Developer Tools: Git, GitHub, Sublime Text, VS Code, Cursor, Jupyter, \LaTeX , Markdown, RStudio, Docker, AWS

Databases: MongoDB, PostgreSQL, Redis, Supabase