

ALVYN KWON

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science

Expected Graduation Date: Dec 2026

- Concentration: Information Internetworks and Intelligence
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Linear Algebra, Discrete Mathematics, Design & Analysis of Algorithms, Intro to AI, System & Networks, Objects & Design

EXPERIENCE

Lead Undergraduate Researcher

Aug. 2024 – Present

Accelerating Materials Discovery with AI Lab

Atlanta, GA

- Led a 5-member LLM subteam, applying **Agile methodologies** (sprint planning, stand-ups) to enhance collaboration and software iteration
- Fine-tuned **Large Language Models (LLMs)** using **Python & PyTorch**, improving crystal structure prediction accuracy and refining algorithmic processes.
- Optimized model efficiency, reducing **processing time by 20%**, accelerating research workflows

Software Developer Intern

May 2024 – Aug. 2024

MasterKlass

Palisades Park, NJ

- Developed and launched an admin dashboard with **React & Django**, streamlining **400+ student and parent profiles**, improving data accuracy
- Engineered a Python-based automation system, cutting manual data entry errors and **processing time by 50%**
- Participated in peer code reviews and **implemented CI/CD pipelines**, enhancing software quality and deployment reliability

Full Stack Developer

Jan. 2024 – May 2024

Georgia Tech Web Development Organization

Atlanta, GA

- Designed and deployed scalable web applications with **React** for frontend interfaces, **Next.js** for server-side rendering, PostgreSQL for database management, and **RESTful APIs** for seamless client-server communication
- Built **AWS-based serverless infrastructure**, integrating **NextAuth & Google Cloud** authentication, enhancing security and scalability
- Enhanced UI/UX responsiveness with Tailwind CSS improving usability for **around 1000 active student users**

PROJECTS

Wrappify | React, Python, Django, PostgreSQL, Git

Oct. 2024

- Developed a Spotify Wrapped-inspired web app, implementing **React** for frontend, **Django** for backend, and **PostgreSQL** for data storage to manage user profiles
- **Optimized API performance** and database queries, reducing data retrieval time and ensuring seamless Spotify API integration

Atlanta Plates | HTML, CSS, JavaScript, Django, Google Maps API

Aug. 2024

- Built a restaurant search & review platform, integrating Google Maps API for real-time location-based recommendations and user-generated reviews
- Integrated **CI/CD pipelines** to **ensure agile development** by executing sprints, daily stand-ups, and backlogging tasks and feedback

Machine Learning for Exoplanet Classification | Python, Pandas, Scikit-learn

June 2022

- Preprocessed and balanced NASA Exoplanet Archive data using **Python, Pandas, and SMOTE**
- Engineered ML classification models, **achieving 99.97% accuracy on 100,000+ data points**, using Logistic Regression and feature engineering techniques

SKILLS

Languages: Java, Python, C, C++, C#, JavaScript, TypeScript, SQL, Swift, HTML, CSS, Assembly

Frameworks: React, Next.js, Angular, Django, PyTorch, Prisma, Pandas, MongoDB

Tools: Git, Docker, PostgreSQL, AWS, Google Cloud Platform (GCP), Microsoft Azure, Linux, Visual Studio Code

Organizations: GT WebDev, Undergraduate Research, Korean Computer Science Association