

Derrick Chen

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EDUCATION

Georgia Institute of Technology

Expected May 2027

Bachelor of Science in Computer Science

GPA 3.70

- Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Computer Architecture, Advanced Algorithms, Database Design

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C, C++, HTML, CSS

Frameworks: React, Node.js, Next.js, Flask, JUnit, Jest, Django, Spring Boot, Express

Developer Tools: AWS, Git/GitHub, Vercel, Jira, Playwright, Azure, GCP, Docker

Databases: PostgreSQL, MongoDB, MySQL

EXPERIENCE

Software Engineer Intern

June 2025 - Aug 2025

BigID

Atlanta, GA

- Developed integration for **BigID customers** to stream DSPM cases into **AWS Security Lake** using **IAM** and **S3**, allowing customers to centralize DSPM data within their AWS environments
- Built the backend in **Node.js**, using **ETL pipelines** instead of **RESTful APIs** to handle terabytes of security data, cutting ingestion time by over **100x** (hours to minutes)
- Wrote **JUnit unit tests** achieving **80%+ code coverage** and built end-to-end **integration tests** for DSPM - AWS workflows; used **Jenkins** to manage test environments and automate cloud deployments

Software Developer

Aug 2024 – Present

GT-WebDev

Atlanta, GA

- Collaborated with developers in Agile environments to deliver projects throughout the SDLC
- Led code reviews, merged dozens of PRs, and implemented lint rules via GitHub Actions to reduce review time by **10-20%**

Undergraduate Researcher

Aug 2024 – Dec 2024

GROWER Research Lab

Atlanta, GA

- Wrote **Python** scripts to web scrape data on power outages from 13+ sources, expanding my team's dataset coverage by **15%** of U.S. states
- Cleaned and analyzed datasets with **1M+ records**, enabling data analysis in emergency response, public investments, and public policy
- Collaborated on a subteam of 6 using **Agile methodologies** such as daily standups, sprint planning, and pair programming, while partnering with Oak Ridge National Laboratory

PROJECTS

GT Notes | gtnotes.org | *TypeScript, AWS, PostgreSQL, Node.js, Express, React*

July 2025 - Present

- Deployed a fullstack web app with **480+ users** for Georgia Tech students to share and find lecture notes across different semesters and professors
- Designed a **PostgreSQL** database schema and implemented type safe queries with **Drizzle ORM** to manage note metadata, while storing and retrieving files in **AWS S3**
- Built an authentication workflow using **JWT** for stateless session management with Google (GCP) and Microsoft (Azure) **OAuth 2.0** providers

MedScan | *Python, Flask, PyTorch*

Feb 2025

- Improved a deep learning x-ray diagnosis tool to achieve **90%+ accuracy** by fine-tuning a PyTorch XRayTorchVision model, reducing diagnostic time for healthcare professionals
- Optimized AI response time by caching results of similar asked questions in a SQLite database

Movie Atlas | *TypeScript, Next.js, TailwindCSS*

Jan 2025

- Built a movie discovery platform offering 10,000+ titles and live movie details refreshed from TMDB API
- Accelerated page load times by **20%** by optimizing **Next.js** server-side rendering with image loading strategies
- Optimized API requests with caching, reducing search latency by **66% (1.5s → 0.5s)**

EXTRA

Awards: Coca-Cola First Generation Scholar, Zell Miller Scholarship Recipient

Extracurriculars: WebDev @ GT, Intramural Sports, Blockchain @ GT, Greek Life (Assistant House Manager)