

Ajay Krishnaswamy

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EDUCATION

Georgia Institute of Technology

Expected Graduation: December 2025

Master of Science in Computer Science

Coursework: Computer Graphics with AI

Georgia Institute of Technology

Graduation: Dec 2024

Bachelor of Science in Computer Science | GPA: 3.92

Coursework: Machine Learning, Computer Vision, Robotics and Perception, Intro to AI

EXPERIENCE

Software Engineering Intern

May 2024 - Aug 2024

AMAZON WEB SERVICES

Seattle, WA

- Worked on the IAM team to develop a pipeline that detected probable root causes for high latency in APIs.
- Trained the ML model using Sagemaker, called the endpoint, preprocessed and augmented the dataset using Lambda.
- Stored the detected anomalies and root causes in an S3 bucket for easy access by on-calls.
- Improved anomaly detection speed and root cause analysis for 1000 Sev-2 tickets by 23%.
- Achieved a 96% accuracy when backtesting the algorithm with historical root causes for anomalies.

Software Engineering Intern

Jun 2023 - Aug 2023

PRUDENTIAL FINANCIAL

Newark, NJ

- Worked on the DevOps team, created a Lambda that automatically processed messages between CI and CD stages.
- Reduced delays between CI and CD pipelines by 50%, reduced manual processing by over 200 requests per day.
- Deployed to production using a Terraform script, inserting my Lambda into the existing Cloudbees pipeline.
- Saved the DevOps team up to 15 hours per week, which comes to an estimated \$60,000/yr in company savings.

Junior Machine Learning Engineer Intern

May 2022 - Aug 2022

FLYWHEEL.IO

Remote

- Developed a Semantic Segmentation algorithm using Python and MONAI, detecting cancer with a 70% accuracy.
- Processed and analyzed 572 MRI scans, utilizing deep learning to improve segmentation accuracy.
- Increased model training efficiency by 25% through preprocessing and data augmentation techniques.

PROJECTS

Puter | [Link to Demo](#) - [Link to Github](#)

Mar 2025 - Mar 2025

- Successfully merged an open source contribution to Puter, which is an Internet OS with over 30,000 stars on Github.
- Created an JavaScript automation script that generates descriptions for 100+ events called in the Puter codebase.
- Auto-scans a manual overrides file to override incorrect descriptions and updates the events documentation accordingly.
- Saved 100+ hours of documentation time for Puter developers, and potentially 1000+ hours for future Puter contributors.

One Click SAT | [Link to Demo](#) - [Link to Website](#)

Jan 2025 - Mar 2025

- Designed a platform for educators to create and deploy practice SAT diagnostic tests to students using generative AI.
- Built using Next.js and Supabase, deployed with Vercel, and the product is currently being used by a tutoring center in Atlanta.
- Accepted into the CREATE-X Startup Accelerator with \$5000 funding, and won 8th place in the Headstarter Buildathon.

LLM Evaluation | [Link to Github](#)

Jan 2025 - Feb 2025

- Created a platform using Next, Groq, Supabase that evaluated responses from LLMs using another LLM as a grading tool.
- Developed an interface where users could input their custom questions for the LLM and experiment with different prompts.

Market Anomaly Detection | [Link to Demo](#)

Jan 2025 - Feb 2025

- Trained a model using LSTM and Isolation Forest to predict anomalies in the stock market.
- Used a correlation matrix to narrow down the useful features and received a precision of 85% on data from 2000 - 2020.

Protestor Friendly Live Feed | [Link to Devpost](#)

Feb 2022 - Aug 2022

- Designed a face blurring algorithm with a Generative Adversarial Network, protecting protesters' anonymity in news media protest footage.
- Won 4th place in Georgia Tech Hacklytics Hackathon, 1st place in Google Cloud category, incubated at the CREATE-X Georgia Tech startup accelerator.

SKILLS

Languages: Java, Python, JavaScript, SQL

Software: AWS · Docker · TensorFlow · JupyterNotebook · Tailwind · NextJS · Vite · Supabase · Groq · React