

Krish Nathan

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Education

Georgia Institute of Technology

Bachelors of Science in Computer Science (GPA: 3.87 / 4.0)

Masters of Science in Computer Science

Atlanta, GA

Aug 2020 – May 2023

Aug 2023 – Dec 2024

- **Relevant Coursework**

- Machine Learning, Computer Networking, Systems and Networks, Computer Vision, Probability & Statistics, Linear Algebra, Applied Combinatorics

- **Undergraduate Teaching Assistant for Machine Learning with Dr. Mahdi Roozbahani**

- Developing course materials (assignments, projects, quizzes) and leading weekly office hours
- Teaching theoretical background and programming implementation for supervised and unsupervised learning techniques

- **Research Assistant - Digital Pathology Cancer Treatment**

- Contributing to PHP backend application to enable digital capture of cancer samples in underprivileged areas
- Implementing computer vision models using Python and OpenCV which determine whether captured images of cancer samples are poor quality

Work Experience

Slack

Software Engineer Intern

San Francisco, CA

May 2022 - Aug 2022

- Implemented new functionality for Slack Workflows by contributing to Slack's backend in Hacklang
- Rearchitected unit testing framework for Slack Workflows by implementing builder patterns
- Created dashboard to measure adoption of Slack Workflows by writing SQL and Grafana queries

IBM

Software Engineer Intern

Durham, NC

May 2021 - Aug 2021

- Streamlined cloud migration for Fortune 500 clients by implementing a web application with React, Node.js, and MongoDB to analyze a client's software portfolio & identify redundant applications
- Predicted the optimal strategy for migrating an application using machine learning techniques such as support vector machines (SVM)
- Containerized and deployed the web application by creating Dockerfiles and Kubernetes configurations

Instrumentation Laboratory

Software Engineer Intern

Bedford, MA

May 2020 - Aug 2020

- Developed a Node.js web app which analyzed real-time blood clotting data and created a flowchart of treatment steps using D3.js & Socket.io
- Implemented clinical algorithms using TypeScript, which helped doctors identify the best treatment 20% faster
- Translated multi-functional requirements from doctors into software features Agile methodology & Jira

Projects

Thyroid Hormone Detection Device

Boston, MA

Aug 2016 – Current

- Granted utility patent for "DEVICE FOR QUANTITATIVE MEASUREMENT OF THYROID HORMONES" (USPTO 16/750,446) effective August 2022
- Designed an inexpensive device which measures thyroid hormones to reduce the cost of treating hypothyroidism
- Programmed Arduino device using C++ and developed electrochemical reaction which measures thyroid hormone

Skills & Interests

Programming Languages: Python, Scala, Javascript, Hacklang / PHP, Java, SQL

Skills: NumPy, scikit-learn, React, AWS, Kubernetes, Docker, Agile Methodology

Interests: Distributed Systems, Machine Learning, Backend Engineering, Systems Architecture, Finance