

Alexander Gurung

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Education

Georgia Institute of Technology

B.S. Computer Science | College of Computing

Atlanta, GA

August 2018 — Present

- GPA (Weighted) — 3.69/4.0
- Member of Honors Program, The Agency
- Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Honors Linear Algebra, Object Oriented Programming, AGILE Development, Design Principles

Thomas Jefferson High School for Science and Technology

Advanced Studies/Jefferson Diploma

Fairfax, VA

August 2014 — June 2018

- GPA (Weighted) — 4.395/4.0
- President of Development Club & Linguistics Club
- Relevant Coursework: Artificial Intelligence, Mobile App Development, Web App Development, Multivariable Calculus

Work Experience

Undergraduate Researcher — Automated Algorithm Design VIP Team

Atlanta, GA

January 2019 — Present

- Received training in Genetic Algorithms, Machine Learning theory, team-specific frameworks and infrastructure using Python and C++
- Joining a sub-team and engaging in research concerning creating hybrid algorithms to solve complex problems

Lead Software Engineer — BLTN (Startup)

Atlanta, GA

January 2019 — Present

- Leading full-stack development for a new social-media startup
- Working with NodeJS, Firebase, and React to build UI and store user information
- Managing design and engineer teams to make sure development is in line with project demos and deadlines

Teacher's Assistant — Fairfax County Public Schools

Fairfax, VA

July 2017 — August 2017

- Helped run the Foundations of Computer Science class of ~30 students
- Created Java demonstrations and taught key concepts like primitives and basic data structures

Select Personal Projects

Make a Face — Deep Learning Hackathon 2018 (1st Place)

Atlanta, GA

September 2018

- Made a web app with 2 other teammates where the goal is for the user to match the given image's facial expression
- Used Convolutional Neural Networks and Haar Cascades to detect faces, emotion, and key facial reference points
- Personally trained the CNN to detect facial reference points using Keras
- Designed an algorithm to determine facial similarity using average difference between facial points after applying a change of basis

Local Neural Style Transfer — Mobile/Web Application Research Lab

Fairfax, VA

September 2017 — April 2018

- Created an Android App to perform neural style transfer purely locally
- Researched modern methods for performing neural style transfer and designed/trained my own models using Tensorflow and Python
- Wrote the application using Java and the accompanying Tensorflow libraries

Lighthouse — HackTJ 2017 (Palantir Social Impact Award)

Fairfax, VA

March 2017

- Created a cross-platform app to connect those in need of quick temporary housing in times of crisis with those willing to provide
- Led front-end development using React-Native and assisted back-end development using Flask and MongoDB

Skills & Interests (Most to Least Experienced)

Languages:

- Python, Java, HTML/CSS/JS, Matlab, GoLang, C++, Dart, R

Frameworks & Tools:

- NodeJS, Android, Git, Firebase, React, React-Native, VirtualBox, JUnit, SQL, Tensorflow, Keras, Flutter, AngularJS

Operating Systems:

- Windows, Linux