

# Gergely (Greg) Chikan

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## Education

Cornell University

B.A. in CS & Math

Anticipated May 2023 | Ithaca, NY

GPA: 3.88 / 4.0

## Coursework

Algorithm Analysis

Machine Learning

Computer Vision

Embedded Systems

Functional Programming

Discrete Structures

O-O Design & Data Structs (Honors)

Backend Design

Differential Equations

Probability Theory

Linear Algebra

## Languages

Proficient

JavaScript • Java • Python • C •

OCaml • LaTeX

Familiar

Bash • C# • SQL • HTML/CSS

## Technologies

Proficient

Git • Linux • React.js • Flask •

NumPy • AWS

Familiar

Google Cloud • Node.js • Docker •

TensorFlow • OpenCV • Unity

## General Knowledge

Agile • Scrum • Cloud Computing •

Project Management • Teaching •

Technical Writing • DevOps • SOLID

## Interests

Linguistics • Philosophy • Chess •

Travelling • Photography • Biking •

Rock Music • Piano • Board Games

## Experience

Software Development Engineer Intern | Amazon

Jun 2021 – Dec 2021 | Dublin, Ireland

- Designed, developed, and deployed an internal autotester service to ensure the availability of chunks through fail-safe processes, securing the response to region-wide CloudWatch data outages
- Orchestrated workflows using event-driven state machines in AWS (Step Functions, Lambda, S3, DynamoDB, Kinesis, CloudWatch)
- Wrote design documents to communicate approaches/solutions to problems, using cost-benefit analysis to drive decisions
- Self-studied a course for AWS Cloud Practitioner certification

Software Engineer | Cornell Cup Robotics

Jan 2020 – Current | Ithaca, NY

- Part of the Minibot project, a licensed educational robotics platform designed for high school/college students
- Designed and implemented a visual programming language and editor to control a robot through a React.js web-app
- Debugged and optimized a Raspberry Pi Camera Stream
- Built a React.js web-app for training a TensorFlow.js object-classification model to help students understand ML/CV

Teaching Consultant | Cornell University

Aug 2020 – May 2021 | Ithaca, NY

- CS2112: Honors O-O Design & Data Structures (Fall 2020)
- CS3110: Data Structs & Functional Programming (Spring 2021)
- Designed and graded assignments and exams
- Assisted students through discussion forums and office hours

Backend Developer | Cornell Course Management System

Jul 2020 – Dec 2020 | Ithaca, NY

- Created and tested utility JPA classes/endpoints; redesigned and rebuilt API to transition from JSP to REST architecture

## Projects

Mill-AI

May 2020 – Sep 2020

- A React.js web-app for the game Mill with a greedy MCTS AI altered and optimized for wide and infinite game-trees

Sorting Algorithm Visualizer

Jan 2020 – Feb 2020

- A React.js web-app for visualizing and analyzing 6 sorting algorithms on custom-generated arrays