

## EXPERIENCE

### Brainrot.mov, Founder

Feb 2025 – Present

- Grew an educational developer focused account (@aws\_peter) to 70k+ followers, 4.5M+ views, and 1.6M unique viewers by teaching concepts like Docker, Kubernetes, AWS Lambda, and Infrastructure as Code
- Created a Fullstack React app for generating short form videos using AI voices, with over 300 unique AWS Resources, 10s of gigabytes of user data stored on S3, deployed and managed using Infrastructure as Code.
- Enabled 1500+ users to generate over 25 million views and 200 thousand followers with over \$1k in revenue.

### Rocketlab, Web Software Engineering Intern

May 2025 – Present

- Integrated realtime factory visualization with 'HotLots', delivering observability on critical production areas
- Optimized speed of semiconductor calibration through predictive modeling of positions and temperatures
- Reduced hotpath query latency from 10s to 20ms by optimizing PostgreSQL on Kubernetes infrastructure
- Developed terminal-based Jira interface, increasing ticket throughput and improving managerial visibility

### NewGen Business Solutions, Software Engineering Intern

May 2023 – Aug 2023

- Created tests for 80% of all API endpoints in ConventionSuite, NewGen's primary product, increasing confidence in their ongoing rewrite from Create-React-App to Vite

## EDUCATION

### Georgia Institute of Technology, College of Computing

Aug 2024 – May 2027

Candidate: B.S. in Computer Science with concentrations in Devices and System Architecture

- **Courses:** Data Structures & Algorithms, Linear Algebra, Objects and Design, Computer Organization
- **Activities:** GT Bits of Good, dependently-typed, Competitive Programming

## ACTIVITIES

### Georgia Tech Bits of Good, Engineering Manager

Jan 2025 – Present

- Implemented a new design system directly from Figma using React, Radix UI, TailwindCSS and Next.js
- Created an internal CLI tool based on shadcn/ui for easy access to design system for all Bits of Good projects

### Broncobotics, Head of Technology

Aug 2020 – May 2024

- Led team to second place finish in the Las Vegas FRC Regional in 2022 as programmer and strategist
- Spearheaded 20 student team creating and coding a robot in 6 weeks for the FIRST Robotics Competition

## PROJECTS

### Brophy Attendance

rgodha.com/attendance

- Built an attendance system in use at Brophy College Prep based on scanning barcodes on student ids
- Created and integrated a Raspberry Pi-based barcode scanner in Rust, an AWS Lambda & DynamoDB based backend in Typescript, and a realtime web dashboard in Typescript using technology like SST and React

### AlphaSnake

rgodha.com/alphasnake

- Trained a custom neural network using a genetic algorithm across 96 parallel CPU cores on Google Cloud
- Optimized a game engine using techniques like increasing cache locality, bitmasks, and SIMD
- Achieved 5th place by ELO in the Georgia Tech Bytefight competition, sponsored by Google

### EcoFlare

rgodha.com/ecoflare

- Created a frontend where users can upload drone images of forest canopies to be analyzed on AWS
- Deployed and trained a custom Tensorflow model to AWS ECS using Docker, Rust, and ONNX Runtime

## SKILLS

- **Programming Languages:** Typescript, Rust, Go, Nix
- **Frameworks & Technologies:** React, Next.js, Svelte, Tailwind CSS, AWS, Infrastructure as Code, Docker
- **Languages:** English (Native speaker), Hindi (Conversational), Spanish (Basic proficiency)