

# Aniket Gargya

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## Education

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### B.S. Computer Science (Grainger College of Engineering),

Aug 2021 – May 2024

University of Illinois at Urbana-Champaign

- **Coursework:** CS225: Data Structures (A+), CS374: Intro to Algorithms & Models of Computation (A+), CS233: Computer Architecture (A), CS361: Probability & Statistics for Computer Science (A), CS440: Artificial Intelligence (A), CS341: System Programming (IP), CS421: Programming Languages & Compilers (IP)
- **GPA:** 4.0/4.0

## Professional Experience

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### Software Engineer Intern, Meta (Facebook)

May 2022 – Aug 2022 | Menlo Park, CA

- Meta FinTech - Financial Infrastructure Team
- Enabling end to end flow of automatic productionization of schemas in ZippyDB
- Working on codebases in Python, Rust, and Hack (PHP)

### CS374 Course Assistant, University of Illinois at Urbana-Champaign

Jan 2022 – May 2022 | Urbana, IL

- Course assistant for the intro to algorithms and models of computation class at UIUC
- Held office hours to enhance students' understanding of course material such as Regular Languages, Turing Machines, Dynamic Programming, Graph Algorithms, Decidable and Undecidable Languages, and P vs. NP
- Graded weekly homework assignments

### Cat Digital Intern, Caterpillar Inc.

Jun 2020 – Aug 2020 | Urbana, IL

- Designed and developed a tool to parse the Wheel Tractor Scraper (WTS) computer vision model output files and visualize the performance under separate conditions using Pandas and Matplotlib
- Introduced Computer Vision Annotation Tool (CVAT) into the team's workflow, and developed Python scripts to generate training images from CVAT labelling files
- Trained a computer vision model to detect the region of the ejector blade within the WTS loader using support vector machines and histogram of gradients with over 90% accuracy

## Projects

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### Fortnite Challenges Alexa Skill

- Created a companion Alexa skill for the video game Fortnite using the Alexa Skills Kit (ASK) CLI, Node.js ASK SDK, and AWS Lambda
- Implemented In-Skill Purchasing to sell additional content using the In-Skill Product Service API
- Earned Amazon Developer Rewards (monthly cash prizes for skills that drive some of the highest customer engagement) for 22 months; rated 4 stars with over 2,900 customer reviews; advertised on amazon.com/skills under Premium skills, billboard, trending skills; and included in May's monthly retention email

### Cosignage

- Freelanced an e-commerce website (cosignage.info) for a local business
- Containerized the software with Docker Compose to allow for efficient deployments to an AWS EC2 instance
- Set up the backend server with Node.js and Express.js, the frontend site with React and Next.js, and processed user payments with Stripe
- Used NGINX as a reverse proxy to forward requests to the frontend and backend servers, and enabled automatic SSL certificate renewal with Certbot

## Skills

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### Programming Languages

Javascript (Typescript & Node.js), C++, Java, Python, HTML/CSS

### Databases

MongoDB

### Frameworks & Libraries

React, Next.js, Tailwindcss, Express.js, Pandas

### Tools

Docker, Git