Amitav Krishna

GitHub — Website

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Summary

- Built a stock recommendation service using Python and deployed to Linux servers helping over 80 users make $5000

- Created spreadsheets for organising school events and analyzing election results using Google Sheets and Excel

- Wrote and published articles on my blog using Next.js and Jekyll

- Built a face recognition program for Dementia patients using Python and Open Computer Vision

- Awarded first place in the University of Waterloo Gauss mathematics competition out of all contestants at my school

- Skills: Python, JavaScript, HTML, Linux System Administration, Full-Stack Development, Technical Writing

Projects

- **Face Recognition AI** — July 2024

  Explanation

  - Designed and built an algorithm to help robots recognize and verify human faces, with a focus on real-world usability
  - Implemented core features like image preprocessing, face detection, feature extraction, and comparison
  - Refined the algorithm to improve accuracy and consistency
  - Tackled edge cases like varying lighting, angles, and facial expressions to boost reliability

- **Daily stock notifications** — July 2024

  GitHub

  - Built and deployed a daily email service using Python and Yahoo Finance to send stock alerts to users
  - Grew the service to 80 active users, helping clients earn over $5,000 through timely insights
  - Deployed the application on Linux servers hosted on DigitalOcean, ensuring reliable daily delivery and uptime

Experience

- **Assistant Swimming Instructor** — July 2024

  Hagersville Lions Pool

  - Contributed to a successful cross-functional team response during an emergency thunderstorm evacuation, prioritizing safety and student experience
  - Collaborated with senior instructors and lifeguards in a fast-paced environment to deliver effective, personalized swim lessons for children of all skill levels

- **Camp Counsellor** — July 2024

  Municipality of Haldimand

  - Worked closely with other counsellors and staff to run daily activities for kids aged 5 - 12
  - Led games, sports, and crafts and took initiative to support campers who needed extra attention