Abhinav Byreddy

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Education

The Pennsylvania State University
GPA: 3.80
Awards: Dean's List for 4 Semesters

B.S. in Computer Science
Expected Graduation: May 2026

Skills

Languages: Java, JavaScript, Python, Bash, HTML/CSS
Frameworks: React, Next.js, Kubernetes, Node.js, OpenAPI/Swagger
Tools: NGINX, Docker, AWS/GCP, Firebase, Tensorflow
Certifications: AWS Certified Cloud Practitioner, J.P. Morgan Forage Software Engineering Experience
Relevant Coursework: Systems Design (C), Algorithms, Database Management, Discrete Mathematics

Work Experience

CTFGuide
Founder, Software Engineer

State College, PA
Oct 2022 – Present

- Co-Founded the first AI cybersecurity grading platform, funded by Penn State, Bullmont capital.
- Designed and documented backend api endpoints in JavaScript to handle CRUD operations.
- Built and monitored core backend terminal framework architecture using Kubernetes, Docker, and NGINX, hosted on Google Cloud Platform, which resulted in a 20% cloud cost reduction.
- Managed a team of 13 across 3 different projects through frequent team meetings.
- Created web pages using the React and Next.js framework coded in HTML/CSS (Tailwind.css).
- Created scripts using Python and Bash for logging terminal commands/UI events to stream them to an AI microservice in real-time.

Penn State Computer Technology Club
Vice President

Brandywine, PA
Aug 2023 - May 2024

- Lead a team of 26 to compete in various cybersecurity competitions.
- Created weekly presentations to educate club members on emerging technologies.

Projects

Workbook

HackPSU - Oct 2023

- Terminal system built on GCP K8S that gives professors an interactive markdown coding environment.

QuickQuiz

HackPSU - Nov 2022

- Used Tensorflow to analyze user submitted notes and GPT-3 to make flashcards based off of the summarization model.
- Built backend services using Node.js in combination with Express.js with Firebase to authenticate and deploy frontend.

Discord Compiler Bot

Personal Project - May 2024

- Interacted with the Discord Developer API to compile snippets of Java, JS, and Python, and output them back to the user. Hosted on a DigitalOcean droplet.

WebbProcessor

Personal Project - Oct 2022

- Program built in Java to automatically process and output raw images taken from the James Webb Space Telescope.

Activities

- HackPSU
- VEX Robotics

2022, 2023
2015-2021