

PRANAV RAMESH

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EDUCATION

The Pennsylvania State University
College of Information Sciences & Technology
B.S, Human Centered Design & Development

August 2022-May 2026
State College, Pennsylvania

WORK EXPERIENCE

Snyder Technologies LLC
Software Engineering Intern

May 2024-August 2024
Bethelhelm, Pennsylvania

- Used AngularJS and Node.js, Typescript, Rust, Bun.js for development, leveraged Azure for cloud services and Kubernetes for container orchestration.

CTFGuide Corporation
Software Engineer

December 2022-Present
State College, Pennsylvania

- Developed a service to spin up Linux machines that are streamed to the browser using Docker and Node.js. Built a custom load balancer that utilized machine learning for this service to prevent server overload. Built a custom reverse proxy to map internal container ports to dynamically created subdomains.
- Created the base API and 55 endpoints using Node.js & Express. API currently handles over 24K+ requests a day.
- Built the platform's first AI service responsible for grading cybersecurity skills.
- Designed the initial frontend using TailwindCSS, Next.js, and React.js.

Knowt Inc
Software Engineer

February 2023-May 2023
New Brunswick, New Jersey

- Utilized React.js, HTML, CSS to build features that allowed users to customize their profiles on Knowt.
- Refactored UI components that were featured on user profiles.

The Pennsylvania State University
Software Engineering Internship

September-December 2022
Lansdowne, Pennsylvania

- Conceptualized and executed a comprehensive inventory management system using the MERN stack for a busy makerspace, resulting in a 52% increase in operational efficiency and resource tracking accuracy
- Streamlined the workflow of the makerspace by introducing automated inventory tracking features, which drastically reduced manual input errors and optimized resource allocation

PROJECTS

Expo Plaid Link Flow

March 2023-Present

- Maintained and iteratively improved an open-source repository that facilitates the integration of Plaid bank linking within Expo-based applications, significantly simplifying financial transactions for app developers
- Fostered a collaborative community of contributors by establishing guidelines and best practices for the open-source repository, ensuring the reliability and scalability of the Plaid bank linking feature

EXTRAS

Skills: Java, Swift, Python, GKE, Kubernetes, Jira, Trello, Github, Git, Gitlab, AWS, Typescript, Javascript, Node.js, HTML/CSS, Docker, Bash, PostgreSQL, Prisma ORM, MongoDB, Scikit, Tensorflow.

Clubs: IST/SRA Club, Entrepreneurship Club