

Enrin Debbarma

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EDUCATION

The Pennsylvania State University, Harrisburg, Capital College

Harrisburg, PA

Bachelor of Science in Computer Science

Expected: Dec. 2025

- Data Structures, Object Oriented Programming, Formal Languages, Compilers
- Machine Learning, Database Management, Software Engineering Management

PROJECTS

NextStep – Job Matching App | [Website](#)

Nov. 2024 - Present

Full-Stack Project | ReactJS, NodeJS, ExpressJS

- **Full-Stack Development:** Built responsive web (React.js) and mobile (React Native) interfaces; engineered an Express.js backend with MongoDB Atlas, emphasizing secure authentication and real-time data updates.
- **AI/ML Integration:** Designed a content-based recommendation engine that uses machine learning techniques to match job openings with user profiles along with OpenAI's API to parse submitted resumes.
- **Team Collaboration:** Practiced agile methodologies, participating in daily stand-ups in a team of 6 including Supervisors and Professors, ensuring timely project delivery.
- **DevOps:** Hosted Frontend using Vercel & Backend using Render with a personal domain.

aSpot – An Itinerary Maker | [HomePage](#)

Feb. 2024 - Present

Full-Stack Project | Typescript, NextJS

- **Intelligent Recommendations:** Developed an AI-powered travel planner using Next.js (TypeScript) that personalizes itineraries based on user input.
- **Integration with Third-Party APIs:** Leveraged Google Maps API to optimize travel plans, integrating external data—parallel to how manufacturing environments may integrate AI solutions with legacy systems.
- **Secure and Scalable Development:** Utilized NextAuth.js for robust user authentication and Redux for efficient state management.

PROFESSIONAL EXPERIENCE

Penn State University, Harrisburg

Harrisburg, PA

IT Operations Specialist

Mar. 2024 - Oct. 2024

- Resolved **50+** daily IT support tickets using **ServiceNow**, troubleshooting complex technical issues and ensuring minimal downtime.
- Installed, configured, and maintained over **200** workstations while ensuring the proper functioning of **IoT** sensors on machines that provided WiFi connectivity and power throughout the university campus.
- Administered and monitored campus-wide network infrastructure, including **Wi-Fi & multi-factor authentication** and smart device connectivity—ensuring secure, uninterrupted access for **5,000+** users.

Zolve (FinTech)

Remote

Product Tester

May. 2023 - Sept. 2023

- **Quality Assurance & Feedback:** Tested product features, providing structured feedback that led to significant user experience improvements.
- **Collaborative Problem-Solving:** Coordinated with cross-functional teams to implement changes that enhanced platform performance by identifying and resolving inactive features.
- **Growth:** Enhanced growth and audience engagement by 15%.

SKILLS

- **AI/ML & Data Analytics:** Data Preprocessing, Data Manipulation & Analysis, Data Visualization ([GitHub Repo](#)), SQL, PostgreSQL
- **Web & Software Development:** Python, Java, C++, Javascript, Typescript, Next.js, React.js, Node.js, Express.js, MongoDB, REST APIs, Redux, HTML, CSS, Next.js, Firebase
- **Tools & Platforms:** Vercel, Render, Postman, Google Cloud, Git, GitHub, Figma, ServiceNow, ITIL v3