

Pranav Palle

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EDUCATION

University of Maryland - College Park

Bachelor of Science - Computer Science (Machine Learning)

GPA: 3.95 / 4.00 (Dean's List)

Expected Graduation: May 2026

Extracurriculars: University Senator, CS Recruitment Ambassador, Cloud Computing Club (Executive Director), Extern Ambassador

SKILLS

- **Programming Languages:** Java, Python, Javascript/TypeScript, C/C++, Microsoft Power BI, SQL, R, OCaml
- **Technologies/Frameworks:** Azure, AWS, Flutter, Git/GitHub, React, RESTful API, Linux/Unix, Flask, Postman, Tailwind CSS
- **Certifications:** Microsoft Certified Azure Fundamentals, Databricks Fundamentals, CodePath CYB102: Intermediate Cybersecurity
- **Relevant Coursework:** Algorithms, Data Science, Computer Systems, Statistics, Linear Algebra, Object Oriented Programming

EXPERIENCE

Amazon Web Services (Elemental) | *TypeScript, AWS, CI/CD, Jest, Puppeteer*

Herndon, VA

Software Development Engineer Intern

06/2025 - 08/2025

- Architected production deployed global view dashboard page for Workflow Monitor console removing need to change regional endpoints
- Added canary testing to CI/CD pipelines creating new workflows to identify and determine cross-region interactions using Puppeteer
- Researched and owned **four documents of 25+ pages** detailing implementations of cross-region development and testing
- Project will be presented at the International Broadcasting Convention (IBC) 2025 to **45,000+ attendees from 170+ countries**

Inovalon | *Snowflake SQL, Datadog, Microsoft Power BI, AWS, Airflow, Next.js*

Remote

Part-Time Associate Software Engineer Intern

08/2024 - 12/2024

- Prototyped and designed scalable architecture to automate process of finding patient population demographics using customer inputted healthcare claim codes then displaying to end user in Power BI dashboards
- Worked with **over 70 billion data points** to create client side Next UI for dynamic query building based on user specifications

Associate Software Engineer Intern

06/2024 - 12/2024

- Created **Snowflake SQL** tables to query AWS MWAA Airflow metrics to construct comprehensive Datadog and Power BI dashboards
- Deployed Airflow code to AWS following CI/CD practices in Azure DevOps to ensure successful integration of DAG changes
- Interacted with admin level access to critical systems **reducing database errors by 23%**, enhancing data accuracy and reliability
- Taught company wide Power BI session on conditional formatting and AI tools to help **30+ analysts** create more intuitive dashboards

US News & World Report | *TypeScript, GitHub, React, TanStack, Python, Figma, PostgreSQL*

College Park, MD

Student Technical Project Lead - Contract

01/2024 - 08/2025

- Led **Agile** team of 14 student software engineers to create comprehensive **internal QA web application** to efficiently validate metric values using **time series analysis and machine learning models** saving non-technical staff hundreds of hours of manual lookup
- Bridged knowledge gap between departments by creating easy visual access to PostgreSQL tables of **thousands of colleges and metrics**
- Implemented TanStack to dynamically query API **reducing website latency by 90%**
- Presented the product at the U.S. News Headquarters to company leadership, including the CTO and lead engineers

UMD Department of Computer Science

College Park, MD

Co-Founder and Student Instructor: Practical Cloud Computing with AWS

06/2025 - Present

- Led design of **15 week syllabus for 30+ students** covering hands on sessions deploying cloud applications with AWS

Undergraduate Teaching Assistant: Java Object Oriented Programming II

08/2024 - Present

- Taught and curated Java programming concepts and guided them on learning different concepts during office hours
- Graded quizzes, projects, and exams of around **200+ students** giving helpful feedback on mistakes and methods to improve

Leveling the Playing Field (Hack4Impact - UMD) | *TypeScript, Tailwind CSS, Salesforce, Next.js*

College Park, MD

Student Software Engineer - Contract

08/2024 - 12/2024

- Developing inventory management application for a **non-profit organization** utilizing Salesforce for backend with mobile scalability
- Collaborated with engineers through the **Microsoft Mentorship Program** to mitigate security risks and achieve greater quality code

PROJECTS

ProJourney - Startup | *Judges0, Stripe, Clerk, Supabase, Cloudflare, Tailwind, Next.js, AWS Amplify* | <https://projourney.pro/>

- Integrated Split.js, Tailwind CSS, and Monaco Editor to create functioning code editor to write and execute programs
- Constructed **AI powered roadmap** to recommend problems to continuously help **30+ waitlist users** retain data structure skills