# Arnav Dashaputra

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CS graduate with hands-on experience in full-stack development, cloud infrastructure, AI/ML, and data-driven solutions. Adept at turning business needs into results-focused applications and highly motivated to deliver impactful projects.

## SKILLS

- **Languages/Frameworks:** React, JavaScript, TypeScript, HTML/CSS, Tanstack, Node.js, Java/FXML, Bootstrap, C#.
- **Data/AI:** Python (pandas, scikit-learn, seaborn, OpenCV, Streamlit, Selenium), OpenAI (API + embeddings), R, Tableau.
- **Other:** AWS Microservices, Android SDK, Bash, Regex, ASM, LaTeX, GitHub, CI/CD, Figma, MS365, Google Analytics.

## PROFESSIONAL EXPERIENCE

**Software Engineer**                                                                                               **Middletown, DE**
Stealth AI Health-tech Startup                                                                        March 2025 – Present

- Engineered cloud-native healthcare infrastructure on AWS: deployed Dockerized HL7 FHIR services on EC2, migrated data persistence to RDS/PostgreSQL, and optimized provisioning and scalability for reliable operation.
- Built and maintained production React applications, collaborating with UI/UX designers (Figma, Photoshop); shipped a complete user-facing landing page and an API-driven health dashboard with robust state management.
- Automated backend workflows with custom Python scripts for bulk data ingress and static resource generation.

**Freelance Solutions Architect**                                                                            **Princeton, NJ**
Multiple Clients *(incl. Got Users LLC, PHILLIPVN LLC, more)*                           January 2025 – Present

- Built end-to-end text analytics platforms using embedding-based semantic retrieval (FAISS), interpretable ML modeling, and k-means clustering to analyze social media posts, extract features, and generate style guidelines.
- Engineered ML pipeline for text normalization, embedding computation, and readability analysis; used cosine-similarity semantic search and Gemini-based content synthesis for polishing drafts based on generated guidelines.
- Architected a serverless SaaS platform using React, integrating AWS Cognito authentication, API Gateway with JWTs, Lambdas (python, boto3), DynamoDB, EventBridge scheduling, and IaC with SAM and CloudFormation.
- Integrated Stripe Checkout and Billing Portal with webhook processing via Lambda to keep subscription and user state in DynamoDB; implemented least-privilege IAM, CORS/security hardening, and scripted deployments (CI/CD).

**Center Director**                                                                                                   **Bridgewater, NJ**
Code Ninjas *(Bridgewater, Green Brook, and Hillsborough, NJ)*                        October 2020 – Present

- Hired and trained over 80 employees and interns; held workshops to improve teaching and leadership qualities.
- Improved customer registrations by 70% through authoring innovative programming curricula (Scratch, JavaScript, Unity/C#) for over 500 students, held during 36 week-long camp sessions across three separate branch locations.

**Computer Labs Consultant**                                                                              **Piscataway, NJ**
Rutgers University Office of Information Technology                                   April 2022 – January 2025

- Diagnosed an average of 50 technical issues per week using ServiceNow workflows, OpenRegistry and similar internal IDMS, PaperCut and Icinga for device management, and SecureW2 for network authentication and security.
- Reduced average resolution turnaround times by 20% through proactive system monitoring, efficient and speedy troubleshooting, and effective prioritization; leveraged ServiceNow with Slack for rapid support coordination.

**Vice President of Communications**                                                                   **New Brunswick, NJ**
Sigma Phi Epsilon, NJ Beta *(Rutgers University)*                                 October 2023 – November 2024

- Boosted online presence with an 18% rise in Instagram engagement and 10% website growth, leading chapter-wide communications strategies and earning the *Benjamin Hobson-Frayser Award for Excellence in Communications.*

## INDEPENDENT PROJECTS (files available on GitHub)

**K-Means Clustering and Data Preprocessing** *(Python, scikit-learn, pandas)*

- Built end-to-end preprocessing (imputation, encoding, scaling) and implemented K-Means; tuned $k$ with elbow & silhouette scores, then produced EDA and cluster-profile summaries with clear narratives to guide interpretation.

**Tangerine — Discord automation and moderation tool** *(Node.js, Express, MongooseDB)*

- Built and operated a real-time Discord service for advanced moderation and growth utilities; deployed on Heroku with horizontal scaling and instrumentation, at peak supporting **250K+ daily users** across 500+ unique servers.

**False Discovery Rate (FDR) Gene Analysis** *(Python/R)*

- Ran hypothesis tests on NCI60 gene expression, applied FDR correction to identify statistically significant genes,

## EDUCATION

**Rutgers, The State University of New Jersey**                                              **New Brunswick, NJ**
- **Bachelor's degree: Computer Science**, Minor: Data Science          September 2021 – December 2024