

Arnav Dashaputra

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Portfolio: dashaputra.net • LinkedIn: linkedin.com/in/dashaputra • GitHub: [ArnavD74](https://github.com/ArnavD74)

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

Stealth AI Health-tech Startup

Middletown, DE

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

Multiple Clients (incl. Got Users LLC, PHILLIPVN LLC, more)

Princeton, NJ

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

Code Ninjas (Bridgewater, Green Brook, and Hillsborough, NJ)

Bridgewater, 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

Rutgers University Office of Information Technology

Piscataway, NJ

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

Sigma Phi Epsilon, NJ Beta (Rutgers University)

New Brunswick, NJ

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 (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

- Bachelor's degree: Computer Science, Minor: Data Science

New Brunswick, NJ

September 2021 – December 2024