

# Arnav Dashaputra

Princeton, New Jersey • [arnav.dashaputra@gmail.com](mailto:arnav.dashaputra@gmail.com)

Portfolio: [dashaputra.net](https://dashaputra.net) • LinkedIn: [linkedin.com/in/dashaputra](https://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-Fraser 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, MongoDB*)

- 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