

# Nideesh Bharath Kumar

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## EDUCATION

### Rutgers University

BS in Computer Science and Data Science, Artificial Intelligence Track

New Brunswick, NJ

GPA: 4.0, Expected May 2027

## EXPERIENCE

### Data Scientist Intern

Rutgers IFH

Oct 2024 – Present

New Brunswick, NJ

- Selected as **1 of 2 candidates** from **1,000+ applicants** to build ML pipelines on 500M+ record datasets
- Engineered a production-grade **ETL pipeline in SAS** to analyze drug safety trends for Medicaid using statistics based risk metrics such as **z-score and outlier detection**

### Software Engineering Fellow

Google + Basta

Jul 2024 – Jan 2025

New York, NY

- Led team as team lead to build algorithmic solutions during a **Google HQ NYC**, ranking **top 10%** in challenges
- Collaborated with Google engineers in **3 long-term mentorships** to enhance DSA and communicative skills

### Emerging Tech Intern

IDEA, Rutgers University

May 2024 – Aug 2024

New Brunswick, NJ

- Developed a full-stack course search platform using **React, FastAPI, PostgreSQL**, supporting **5,000+ course queries**
- Designed an intuitive UI using **Figma** through **25+ user interviews**, leading to streamlining key user flows
- Enhanced design efficiency with product research, reviewing over **300 pages of peer-reviewed studies**

### Data Analyst Intern

Newark Science and Sustainability

May 2024 – Aug 2024

Newark, NJ

- Built data processing workflows using **Python/Pandas** to visualize survey data from **10+ sustainability conferences**
- Enabled data-driven narrative reports by conducting **qualitative insights analysis** from 20+ community gardens

### Software Engineer Intern

Manomay Tech

Jun 2022 – Aug 2023

Mahwah, NJ

- Improved site performance by **reducing page load time 20%** via backend optimizations using **Node.js + NGINX**
- Deployed over 10 business client websites by setting up scalable **web server infrastructure** with Docker + CI/CD
- Resolved **5+ critical bugs** in a Windows app using **C#** and debugging tools to stabilize business operations

## PROJECTS

### Nutricart - Smart Cart (HackRU Winner) | FastAPI, OpenCV, Tensorflow, MongoDB, Terraform — [Link](#)

Feb 2025

- Won **Terraform Award** out of **200+ teams** by deploying a real-time nutrition tracking AI system on smart shopping carts
- Processed real-time image streams with **OpenCV + Tensorflow** to classify food items; scaled using FastAPI + MongoDB

### Handheld Gaming Console | Arduino, C++, Flutter — [Link](#)

Apr 2025

- Designed embedded system with **C++** and **microcontroller** to run games on OLED; boosted battery life by **35%**
- Enabled sub 100ms cloud gaming with **Syncthing + Moonlight** by optimizing graphics rendering and latency protocols

### Youtube Trending Sentiment Analysis | FastAPI, PostgreSQL, NLTK — [Link](#)

Jul 2024

- Built sentiment pipeline that scraped 100 trending videos/day via **Python Cron jobs**; parsed comments with NLTK/TextBlob
- Deployed backend with **FastAPI** and persisted trends to **PostgreSQL** for analytics and visualization

### KnowJoy – Multimodal Learning Tool | C#, Godot, React — [Link](#)

Jun 2024

- Designed gamified learning app using **Godot + React**, reaching **150+ users** and **2,000+ demo views**
- Succeeded in Buildspace S5 as **top 5% of 17,000+ developers**; led feature development and project management

### Air Quality Maps (1st in CSBase Hackathon) | Flutter, Dart, Google Maps API — [Link](#)

May 2024

- Won **1st place** out of **400+ teams** for an eco-friendly route planning app using Google Maps + AQI data APIs
- Reduced frontend compute cost by **20%** by optimizing API calls via a custom Shelf server on Dart

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, SQL, C#, Java, C++, Dart

**Frameworks/Tools:** FastAPI, React, Flutter, WPF, Node.js, PostgreSQL, MongoDB

**AI/ML:** LangChain/LangGraph (Agents), Rag, TensorFlow, PyTorch, OpenCV, Transformers, Pandas

**Cloud/DevOps:** AWS (EC2, S3), Docker, Kubernetes, GitHub Actions, Cron, Terraform

**Awards:** HackRU Winner, CS Base Hackathon Winner, Data 101 Hall of Fame

**Leadership:** Codepath TIP 103 Tech Fellow, Buildspace Lead SWE