Nideesh Bharath Kumar

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EDUCATION

Rutgers University - New Brunswick   Expected May 2027
Pursuing B.S. in Computer Science and Data Science | Honors College   GPA: 4.0
Coursework: Algorithms, Data Structures, Systems Programming, Computer Architecture, Artificial Intelligence, Data Engineering, Data Science, Object Oriented Programming, Linear Algebra, Discrete Mathematics

EXPERIENCE

Johnson and Johnson   January 2026 - May 2026
Incoming Software Engineer Intern   *Raritan, NJ*
- Joining J&J's data organization, building large scale data pipelines for real time integration with enterprise decision systems

Rutgers IFH   October 2024 - Present
Data Engineer Intern   *New Brunswick, NJ*
- Selected as **1 of 2** from **1000+ applicants** to build ML infrastructure on multimodal healthcare data exceeding **500M** records
- Built an ETL pipeline in SAS ingests **300K rows/min** with dynamic feature generation and rule-based anomaly detection
- Designed BeautifulSoup/Selenium scraper parsing HTML/PDFs to JSON from **15K+** medical sites with DOM cleanup logic
- Developed real-time Python Whisper transcription workflow with Voice Activity Detection, achieving **sub-1s word** latency

Google   July 2024 - September 2025
Software Engineer Fellow   *New York City, NY*
- Accepted into 3 consecutive cohorts from **2k+** applicants, learning code quality techniques through weekly SWE mentorship
- Led team at Google NYC to **top 10%** placement in an coding competition, solving optimization challenges under time constraints

Rutgers University - Aresty   May 2024 - May 2025
Machine Learning Student Researcher   *New Brunswick, NJ*
- Presented Aresty Symposium poster comparing **4 ML models** for PM2.5, identifying insights for hybrid modeling approaches
- Regridded model outputs across **20M+** NY/NJ grid points using scipy griddata interpolation for **6** pairwise spatial comparisons
- Validated models with t-tests, Pearson correlation, and heatmap charts; neural networks excelled in cities, geophysical in suburbs

IDEA   May 2024 - August 2024
Software Engineer Intern   *New Brunswick, NJ*
- Developed course recommendation system supporting **5,000+** courses across **90+** majors for interdisciplinary exploration
- Built application with React, FastAPI, and PostgreSQL, achieving **36.3%** increase in user interview ratings over current system

Newark Science and Sustainability   May 2024 - August 2024
Data Analyst Intern   *Newark, NJ*
- Built Python/Pandas workflows analyzing structured and unstructured survey data from **30+** conferences and community gardens
- Applied NLP and statistical modeling to generate **100+** quantitative insights for dashboards, informing strategy/outreach decisions

Manomay Tech   June 2022 - August 2023
Software Engineer Intern   *Mahwah, NJ*
- Set up local hosting server with Node.js and NGINX, hosting **10+** business websites with **99.95%** uptime and load balancing
- Built automated CI/CD pipeline with Docker and GitHub Actions, cutting average deployment time from **45 to 8 minutes**
- Fixed critical bugs in C# command-line tool using remote debugging in VM environments to ensure stable production operations

PROJECTS

ForgetMeNot: AI Dementia Care | *Google AI, OpenCV, Next.js, Snowflake*   2nd Overall - HackRU F25
- Built AI dementia care platform with **FastAPI, Google AI, ElevenLabs** generating personalized narrated memory experiences
- Engineered **OpenCV** facial recognition and voice cloning pipeline, **Next.js** dashboards, and **Snowflake** multimodal storage

NutriCart: Nutrition Smart Cart | *Swift, OpenCV, Tensorflow, MongoDB, AWS*   1st in Track - HackRU S25
- Created nutrition tracking system with image recognition using **OpenCV, TensorFlow, Swift**, and **FastAPI** on shopping carts
- Automated infrastructure scaling to multiple shopping carts using **Terraform** to deploy **MongoDB** and **AWS** resources

BreatheEasy: Air Quality Maps | *Flutter, Google Maps API*   1st Overall - CSBase Hack
- Implemented walking maps reducing air pollution exposure using **Google Maps API** and **Flutter** for areas with poor air quality

SKILLS

Languages: Python, Java, C/C++, SQL, JavaScript, TypeScript, C#, Swift, Dart, HTML/CSS, R
Technologies: TensorFlow, PyTorch, OpenCV, React, Node.js, FastAPI, Flask, PostgreSQL, MongoDB, Snowflake, Docker, Kubernetes, AWS, Terraform, Git, GitHub Actions, NGINX, SAS, Selenium, BeautifulSoup, LangChain, Flutter
Concepts: Machine Learning, NLP, Computer Vision, Data Engineering, ETL, Backend Development, Cloud Computing, DevOps, CI/CD, Unix/Linux, Shell Scripting, Concurrency, Multithreading, Debugging & Profiling (gdb, valgrind)