

Dheer Guda

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EDUCATION

University Of Maryland College Park

College Park, Maryland

B.S. in Computer Science & Math, Minor in Business Analytics & Data Science

Expected Graduation, May 2027

- o **Honors:** Dean's List, QUEST Honors Program, Startup Shell Grant Winner
- o **Related Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Design, Networks, Machine Learning, Artificial Intelligence, Software Engineering, Probability & Statistics

EXPERIENCE

CEO, Synari

College Park, Maryland

AI-Powered Practice Management Startup for Cognitive Therapy (synari.org)

- Grew platform to \$1,000 monthly recurring revenue (MRR) within 3 months by acquiring paying therapist clients.
- Built and launched core features (billing, treatment planning, clinical notes) with Python, FastAPI, React, and Stripe, reducing documentation time for therapists by 40%. Built and deployed with Docker on Railway through Git.
- Implemented secure HIPAA-compliant AWS infra (EC2, S3, RDS) with encryption, IAM, and VPC isolation.
- Selected for Telora Fellowship and engaged with Mokhtarzada Hatchery, refining strategy and pitching to investors.
- Led 2-person engineering team, balancing product velocity with fundraising preparation and customer onboarding.

Software Engineer, University Career Center (UCC)

Remote, New Jersey

Full-Stack Software Engineering (Academic-Year Internship)

- Built and maintained Intern for a Day (ifad.umd.edu) serving 1,000+ students/cycle on FastAPI, React/TS, PostgreSQL.
- Built custom student matching algorithm integrating Google Gemini for semantic checks, halving coordinator time.
- Led a \$35K Do Good-funded upgrade adding RBAC, FERPA-aware PII controls, audit logs, and data-retention policies.
- Shipped CI/CD (GitHub Actions + Docker) and monitoring; query tuning and caching cut p50 page load ~30%.
- Built admin analytics dashboards (funnels, conversion, cohorts) to guide outreach and staffing decisions.

Startup Software Engineer Intern, SPARK

Remote, New Jersey

Full Stack Software Development Internship

- Built and deployed scalable web applications using React, Python, and FastAPI, improving UX load time by 35%.
- Integrated Stripe, AWS Lambda, and ElevenLabs voice API for secure payments, cutting latency by 20%.
- Designed backend microservices and REST APIs using PostgreSQL and Docker to support concurrent user sessions.
- Led an Agile team, coordinating code reviews and GitHub Actions, and maintaining code quality via unit testing.

SAR Synthetic Dataset Research Intern - Professor Triet Le

College Park, Maryland

Software/ML Research Assistant

- Developed SAR dataset in MATLAB/Python/C to reduce data scarcity and enable self-supervised learning.
- Implemented a preprocessing pipeline (radiometric calibration, speckle filtering, normalization, tiling/patching, data augmentation) to improve model signal-to-noise and training stability.
- Prototyped and evaluated computer vision models for SAR tasks, classification/segmentation and reflectivity (backscatter) regression, benchmarking CNN baselines against classical ML (SVM/Random Forest) with k-fold CV.

NEMO Research Assistant, Professor Peter Teuben

College Park, Maryland

Software Development Engineering Research Assistant (<https://github.com/gheetdufa/nemo>)

- Refactored Nemo-Py (C/C++) to Python, boosting runtime efficiency by 30%, adhering to Meta's open-source design.
- Streamlined analysis workflows by integrating data visualization modules with frameworks (Pandas, Matplotlib, HDF5).
- Automated version control, build & unit testing, and release management using Git and Ubuntu-WSL.

PROJECTS

Audit.AI - Bitcamp 2024 Hackathon Winner

College Park, Maryland

Full Stack Developer

- Built a YOLOv6-based multimodal ML system using Python and PyTorch to detect misinformation at scale.
- Implemented hybrid parallel processing pipeline across Google Colab and local servers for optimal training speed.
- Engineered scalable backend with MongoDB and Redis caching for real-time media auditing, earning best overall hack.

askTestudo

Georgetown, Maryland

Lead Backend Developer

- Trained an LLM chatbot with Azure OpenAI & Retrieval-Augmented Generation(RAG) for precise query handling.
- Built scalable full-stack web app with React, FastAPI, MongoDB, and Cloudflare for speed, caching, and analytics.
- Integrated multimodal video responses, vector search indexing, and chat UI to boost engagement and retention.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, C, SQL, R, HTML, CSS

Frameworks & Libraries: React.js, Node.js, FastAPI, Flask, React Native, PyTorch, TensorFlow, Bootstrap

Cloud & DevOps: AWS, Azure, Google Cloud, Docker, Kubernetes, Cloudflare, GitHub Actions, CI/CD, Linux, Ubuntu

Databases & Tools: PostgreSQL, MongoDB, Redis, MySQL, Jupyter, Colab, VS Code, IntelliJ, Git, Eclipse, Bash