Varshini Bhavanam

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EDUCATION

University of Minnesota - Duluth — Duluth, MN
Bachelor of Science in Computer Science — *December 2025*
- Relevant Coursework: Computer Security, Operating Systems, Software Engineering, Natural Language Processing, Mobile User Experience and Design, Automata and Formal Languages, and Sensors and Internet of things.

TECHNICAL SKILLS

- **Languages:** Python, Dart, Java, JavaScript, C#, HTML, CSS, SQL
- **Frameworks/Tools:** Angular, Flutter, Flask, ASP.NET Core Web API, Terraform, Ansible, Docker, GitHub Actions, PyTorch, Swagger
- **Platforms/Services:** Firebase (Auth, Firestore, Storage), AWS (EC2)
- **Developer Tools:** Git, GitHub, VS Code, IntelliJ, PyCharm, Figma
- **Libraries:** TensorFlow, timeago, geolocator, intl, share_plus, image_picker, BeautifulSoup

TECHNICAL PROJECTS

AI Quiz Generator Website — *Angular, C#, ASP.NET Core, Docker – Jun 2025 – Present*
- Built an AI Quiz Generator Website with Angular frontend and C# Web API backend, leveraging Groq API for NLP-based quiz generation.
- Designed and documented RESTful endpoints using Swagger, ensuring clear API specifications and smooth frontend-backend integration.
- Implemented responsive UI, containerized the app with Docker, and automated CI/CD workflows using GitHub Actions.

Sentiment Analysis Model ⬈ — *Python, MLP – Feb 2025 – Present*
- Developed a sentiment classifier for IMDB reviews using PyTorch and a feedforward neural network.
- Preprocessed text, vectorized input, and trained the model with cross-entropy loss and Adam optimizer.

Cloud Infrastructure Automation (DevOps Project) ⬈ — *Feb 2025*
- Provisioned AWS EC2 infrastructure using Terraform and secured access via SSH keys.
- Automated environment setup and Flask deployment using Ansible.
- Built CI/CD pipeline with GitHub Actions to lint, test, and push Dockerized apps on commit.

PantryPal – Mobile App Developer ⬈ — *Jan 2025 – Present*
- Developing a Flutter app to support low-income families with affordable meal planning.
- Built recipe recommendations using ingredient tags and pantry tracking.
- Set up CI/CD using GitHub Actions for testing, linting, and build validation.

EXPERIENCE

Electronic Health Records (EHR) Data Migration Intern — Feb 2025 – Apr 2025
St. Luke's Aspirus Administration — *Duluth, MN*
- Migrated and validated patient data from Meditech to Epic, improving data consistency and accuracy.
- Processed and reconciled structured clinical records with attention to detail and HIPAA compliance.

Undergraduate Research Assistant — Sep 2024 – May 2025
University of Minnesota — *Duluth, MN*
- Developed a mobile app that uses gamification to support mental wellness among students.
- Assisted in literature review, app prototyping, and IRB documentation.

CERTIFICATES

Google Cybersecurity Professional Certificate ⬈ — *May 2025*