

ANIRUDHA KYATHSANDRA

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Work Experience

General Dynamics Mission Systems

June 2025 – Present

Software Engineering Co-op

McLeansville, NC

- Built scalable **alert management microservice** using **Java Spring Boot**, **Docker**, **Kubernetes**, **RabbitMQ**, and **gRPC** to handle real-time health monitoring and route critical alerts, reducing system response time by **30%**.
- Led UI software testing automation for hardware monitoring applications using **bash scripting** and **Eggplant**, reducing test execution time by **35%** and accelerating development cycles.

University of Illinois Urbana Champaign (UIUC)

Aug 2024 – May 2025

Teaching Assistant/Mentor – Software Design Lab

Champaign, IL

- Mentor **4 student teams** through software development projects, progress tracking, achieving **100%** project delivery.

General Mills

Jul 2023 – Aug 2024

Software Engineer

Minneapolis, MN

- Engineered Shelf Life Application using **Next.js**, **React**, **TypeScript**, **RESTful APIs**, and **GCP**, saving **\$2.5MM** with **\$20MM+** cost avoidance across **50+** plants and earning Bell Achievement Award.
- Developed dynamic food box labelling system using **VB.NET**, **C#**, and **MySQL**, implementing customizable nutritional and allergen features, improving accuracy and reducing compliance errors by **30%**.
- Architected ETL data pipeline using **GCP**, **Hasura**, **Jenkins**, **Docker**, and **MySQL** to automate data transmission to SaaS platforms, improving sync efficiency by **60%** and eliminating **8 hours** of manual work weekly.

John Deere

May 2022 – Dec 2022

Software Engineering Intern

Des Moines, IA

- Developed automated image detection system using **C++**, **OpenCV**, **CUDA**, and **Linux** for weed detection, achieving **90%+** accuracy and eliminating field testing costs.
- Built image injection system using **C++**, **OpenCV**, and **real-time systems**, enabling engineers to inject synthetic objects into camera feeds for scenario testing, accelerating development by **40%**.

John Deere

May 2021 – Jul 2021

Software Engineer Intern

Des Moines, IA

- Created automated testing tools using **C++**, **OpenCV**, **Git**, and **Linux**, reducing field testing requirements and giving engineers back **30%** of their work time.
- Developed nighttime light detection system using **C++**, **Computer Vision**, and **OpenCV** to automatically trigger tractor lights based on ambient illumination, improving operational safety.

Education

University of Illinois - Urbana Champaign

Aug 2024 – Dec 2025

Master's in Computer Science — **GPA: 3.76/4.00**

Urbana, IL

Iowa State University

Aug 2019 – May 2023

Bachelor of Science in Computer Science with a minor in Business — **GPA: 3.80/4.00**

Ames, IA

Projects

- **Election Predictor Analytics Platform** - Built ML-powered election prediction system using **Python**, **scikit-learn**, and **spaCy** for sentiment analysis, achieving **87%** accuracy across battleground states. Developed interactive **React** dashboard with real-time polling data visualization and state predictions, processing **10,000+** daily social media posts.
- **IntelliMatch Resume Platform** - Architected serverless resume parsing system using **AWS Lambda**, **S3**, **OpenAI API**, and **Python NLP**, automatically extracting skills and qualifications from PDF/Word documents. Implemented job matching algorithm using **TF-IDF vectorization** and **cosine similarity**.
- **Iowa State University Cloud Club, Founder & Treasurer** - Founded cloud computing club, organizing **AWS training sessions** for **50+** students.

Technical Skills

Languages: Java, JavaScript, Python, C++, SQL, TypeScript, Bash, C

Frameworks and Tools: React, Node.js, Spring Boot, OpenCV, Pandas, Docker, Kubernetes, AWS, GCP, tableau

Databases and Technologies: MySQL, PostgreSQL, MongoDB, Microservices, RESTful APIs