Sharan Jamanani

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EDUCATION

Master of Computer Science - North Carolina State University, Raleigh, NC　　　　**GPA**: 3.66 **|** May 2025
Coursework: Software Engineering, Design and Analysis of Algorithms, Automated Learning-Data Analysis, Computer Networks and Security, Neural Networks and Deep Learning, Advanced Cloud Computing, LLMs in Security.

Bachelor of Engineering in Computer Science - Gogte Institute of Technology, India　　　**GPA**: 9.08 **|** September 2022
Coursework: Advanced Algorithms(Data Structure Time-Space Analysis), Information Security (Cryptography, Hashing), Software Testing (Unit and Integration Testing), Cloud Computing (Virtualization, Load balancing, Hadoop, DNS), Discrete Math (Advanced Statistics, Probability), Machine Learning (Model Training, Visualization), Software Engineering (Agile, Scrum methodologies, CI/CD).

SKILLS

Languages: TypeScript, JavaScript, Python, C++, Golang, Java, HTML, CSS, PHP, Dart, YAML, Rust, Bash(Unix).
Tools, Frameworks: React, Node.js, Flutter, Docker, AWS, Git, Django, Selenium, OAuth, SocketIO, Kubernetes, Hadoop, Jenkins.
Databases: SQL, MongoDB, DynamoDB, PostgreSQL, MySQL, Amazon RDS, Redis, MongoDB Atlas. ChromaDB.
Certifications: Cloud Developer Nanodegree [Link], IT Security Defense by Google [Link], Programming in C++, Solana Bootcamp.

EXPERIENCE

Sr. Software Developer | Meta16labs Healthcare and Analytics Pvt Ltd　　　　　　April 2022 - July 2023
- Led a team of 8 members to deliver customized cross-platform software for **10** projects in collaboration with stakeholders. Implemented business intelligence modules resulting in a **20%** boost in patient care and operational efficiency,
- Oversaw the development and management of a crucial message middleware system for all clients, handling features such as Dlt compliance, WhatsApp template approval, and Bulk messaging for up to **1 lakh** customers via CSV and JSON imports.
- Integrated telephony platform, spearheading the implementation of an automated caller information display, resulting in an over **80%** enhancement in operational efficiency, and decreased response times, thus optimizing system performance.
- Pioneered in integrating web backend for remote data capture resulting **25%** accuracy boost in remote patient screenings.

Full Stack Developer Intern | Meta16labs Healthcare and Analytics Pvt Ltd　　　　October 2020 - March 2022
- Reduced code complexity by **30%** and API response time by **60%** through strategic refactoring of codebase.
- Led the migration of the codebase from legacy languages to a modern stack and modularity, enhancing structural efficiency.
- Developed dashboards and analytics for business KPIs, leading to a **40%** increase in data-driven decision-making.
- Seamlessly migrated data for **47,000** patients, effectively transferring their responses from legacy applications.

PROJECTS

OSGeo Grass GIS | Open Source GeoSpatial Application Contributor | [Link]
Tech Stack: C, C++, Python, GIS, GDAL, NumPy, PostgreSQL, Linux.
- Actively contributing & optimizing geospatial solutions through innovation for peak performance & impactful contributions.
- Collaborated with the community to enhance efficiency and robustness, ensuring seamless geospatial functionality.

Infogram - Serverless Application Backend | [Link]
Tech Stack: AWS Lambda, API Gateway, DynamoDB, S3, Asymmetricly encrypted (RS256) JWT Tokens, Zero trust Auth0, Typescript.
- Developed a scalable serverless application tracking system ensuring privacy and security within a Zero Trust framework.
- Implemented programming interfaces with unparalleled flexibility and agility in adapting to fluctuating workloads.

Vision Bank - Scalable Microservices Backend | [Link]
Tech Stack: GoLang, PostgreSQL, Docker, Gin, Viper, JWT, SMTP, Swaggerhub, GitHub actions, PGX.
- Engineered a scalable and secure banking backend in Golang, leveraging its efficiency and performance advantages, driven by the growing popularity of Large Language Models (LLMs) and the imperative for a modernized backend architecture.

ORCS: Open Resource Control and Surveillance Toolkit - Desktop Application | [Link]
Tech Stack: React, Nodejs(Express), Rust, Kubernetes, Docker, Tauri, Electron, Socket.IO, MongoDB, Prometheus.
- Architected a microservices-based solution for seamless socket integration, fostering real-time system monitoring and app banning. Additionally, enhanced user experience by implementing an auto-startup service on client systems

LEADERSHIP & ACTIVITIES

- **Lead Developer, Indian Cancer Society**: Achieved a **25%** reduction in misdiagnosis rates by enhancing cancer patient diagnostic accuracy using scored assessment workflows in collaboration with the **Indian Cancer Society Bangalore**.
- **Product Manager, Call4Svasth -** Played a pivotal role in the collaborative development of a cross-platform mobile app, streamlining **online** and **offline** data collection with over **10,000** records synchronized seamlessly.
- **Contributor**, **ICAISC Conference**: A New Wave in CyberSecurity: Democratising the Future Networking Landscape. [Link]
- **Organizer**, **BelPy Python Org:** Organized **Python** conference, resulting in a successful gathering of Python enthusiasts.