

# Surya Vamsi Gowtam Singulur

Seattle, WA | <https://www.linkedin.com/in/gowtam-singulur/> | [gsingulur@gmail.com](mailto:gsingulur@gmail.com) | +16028159720

---

## EDUCATION

### Arizona State University

Aug 2021 - Dec 2022

Master of Science, Computer Science

Cumulative GPA: **3.97**

*Relevant Courses:* Artificial Intelligence, Cloud Computing, Data processing at Scale.

### Dhirubhai Ambani Institute of information and communication technology

Jul 2014 - May 2018

Bachelor of Technology, Information and Communication Technology

Cumulative GPA: **7.04**

---

## EXPERIENCE

### BluMax Digital - CTO

Aug 2024 - Present

- Developed an comprehensive AI-powered tool for law firms using LLms, RAG, and Elasticsearch, enabling efficient legal document drafting, context-based research, and automated retrieval of precedents and statutes. The system significantly improved the efficiency of retrieving case-specific precedents and statutes, reducing manual effort by 40%
- Designed and deployed AI-driven HMS system to predict hospital logistics, patient visits, bed occupancy, staff needs, and equipment usage, optimizing inventory and reducing stock discrepancies. Engineered data pipelines for seamless integration of EHR and operational data, ensuring high-quality feature extraction and compliance with healthcare standards, ultimately reducing inventory overstock by 20% and cutting operational costs by 15%

### Amazon Web Services - Software Development Engineer 2

Jan 2023 - Aug 2024

- Designed an API platform to integrate customer interfaces with internal services, while implementing authentication and authorization mechanisms (AuthN/Z) to ensure secure access and streamline operations across various services offered by our team
- Designed and Developed a Batch service to empower customers with self-service capabilities for managing Athena queries and detections, including the provision of Isengard managed accounts with limited roles for secure Athena interactions and AWS Step Functions for debugging and maintenance
- Analyzed and implemented Compound detectors to identify and mitigate security vulnerabilities for AWS clients. It saved 1200 resources from cryptocurrency malware in 6 months after the deployment saving millions of dollars
- Created a centralized exception system for all our products to create, manage, and apply exceptions. I worked with cross functional security teams in our org to understand the business problem and worked backwards to design and implement it

### AAIC Technologies Pvt Ltd - Principal Engineer

Feb 2020 - Aug 2021

- Spearheaded the development of custom Deep learning models to check plagiarism in student assignments which sped up the evaluation time by 3 times and reduced the operating cost by 33%. I worked with three teams to build and deploy this solution. In the process, I mentored multiple SDE's and Data Scientists
- Administered the ticketing system to resolve student queries which has been used by 85% of the students. I designed service oriented architecture ensuring the scalability and also integrates seamlessly with our current systems
- Developed the online examination platform for the students which includes online IDE and live proctoring

### AI Consultancy - Co-Founder

Sept 2019 - Jan 2020

- Developed an AI solution to predict a student's grade in a chosen course using their past performance and the text summary of the course. I had also developed a backend system to expose the AI solution via an API
- Development of AI models to detect fraudulent signatures in both conventional and digital formats. We achieved an AUC of 0.95 for digital signatures and 0.82 AUC for conventional signatures

### Nagarro - Software Developer

Jan 2018 - Aug 2019

- Created jenkins CI/CD pipelines to automate the deployment of Blackbaud's Java microservices saving 75% time spent in manual testing and deployment
- Developed an AI solution to identify disaster-hit areas using tweets and Google trends to notify NGO's to support the affected people

---

## SKILLS

**Language/Frameworks:** C, Java, Python, JavaScript, typescript, Django, HTML, CSS, Spring, Angular, Node.js, MySQL

**AI/ML:** TensorFlow, PyTorch, Statistical Analysis, Deep learning, NLP, Computer Vision, OpenCV,, Knowledge Extraction, NoSQL, Classification, Regression, Clustering, Time series forecasting, LLMs, RAG

**DevOps and Cloud Computing:** AWS, Docker, FloydHub, Git, GCP, Jenkins, LUIS, Splunk