

Shanmukh Srinivas

☎ 413-379-6137 | ✉ shanmukhs99@gmail.com | 📱 shanmukh11 | 🌐 Shanmukh-Srinivas

Education

University of Massachusetts Amherst

M.S. IN COMPUTER SCIENCE (CONCENTRATION IN FIELD EXPERIENCE) - GPA: 3.96/4.00

Relevant courses: Theory and Practice of Software Engineering, Advanced Algorithms, Distributed and Operating Systems

Amherst, MA

Expected: Dec. '22

Indian Institute of Technology Madras

BACHELOR OF TECHNOLOGY IN CHEMICAL ENGINEERING (MINOR IN SYSTEMS ENGINEERING)

Relevant courses: Data Structures and Algorithms, Graph Theory, Multivariate Data Analysis, Discrete Mathematics

Chennai, India

Jul. '16 - May '20

Skills

Languages	Python (Fluent), C++ and Java (Familiar)
Web Development	HTML, CSS, PHP, MySQL, D3.js, React.js, Flask
Technologies	Git, MATLAB, \LaTeX , JIRA, Agile, Docker, Perforce
Libraries	Scikit-learn, NumPy, TextBlob, NLTK, Pandas, PyTorch

Experience

Mathworks

ENGINEERING DEVELOPMENT GROUP INTERN

- Currently meeting the Software development requirements of the GPU Coder team
- Designing the front-page for the Profiling tool of GPU coder using **D3.js**.

Natick, MA

May '22 - PRESENT

Aspen Technology

DATA SCIENCE INTERN

- Enhanced the functionality of **Aspen ProMV™** - a Multi-Variate analysis tool used by chemical plants across the globe.
- Researched and implemented various **Clustering** algorithms and performed deep-dive analysis on **historical time-series data**.
- Constructed a **Failure-agent** with **10%** improvement in accuracy for Batch processes at Chemical plants.
- **Technologies used:** Python, scikit-learn

Bedford, MA

May '21 - Aug. '21

JP Morgan Chase & Co.

SOFTWARE ENGINEER INTERN

- Visualized progress of employees using a **React.js** based web application in collaboration with a team of 25 people.
- Forecasted bank balances using a **Supervised Machine Learning** model with **99.73%** prediction accuracy, earning award as a part of JP Morgan Chase's **Global Hackathon**.
- **Productionized** both the projects during the internship.

Bengaluru, India

May '19 - Jul '21

Projects

Microservices-Based Toy Store

COMPSCI 677 (DISTRIBUTED AND OPERATING SYSTEMS) COURSE PROJECT

- Developed a distributed server application using a multi-tier **microservices-based** architecture.
- Deployed and containerized the application using **Docker**.
- Implemented **caching** and **replication** for high performance and availability.

UMass Amherst

Spring '22

Elevation-based Navigation

COMPSCI 520 (THEORY AND PRACTICE OF SOFTWARE ENGINEERING) FINAL PROJECT

- Developed a software system that finds the most optimal route between two points, taking into account the elevation gains in its path.
- **Technologies used:** Python, React.js, Flask, Open-Elevation API

UMass Amherst

Fall '21

Freelance Software Development

- Developed a **Full Stack Web Application** to book at-home services by integrating **REST APIs** and **Google Maps APIs**. [\[Project link\]](#)
- Contributed to the mobile application which fueled a **major revenue stream** through the Service Click-and-book functionality. [\[Project link\]](#)

Remote

SafeSpot - [\[Repo Link\]](#)

HACKUMASS VIII - HACKATHON PROJECT

- Constructed a **COVID-19 Safety Score** for any place on the globe using Scraped Google Reviews and **Sentiment Analysis** of Local Tweets.
- Leveraged **React** and **Flask** to develop a web application to take location as input and to display the corresponding Safety Score as output.

UMass Amherst

Dec. '20