

SHREEKANTA NELAMANGALA VISHWAPATHY

<mailto:nvs307@gmail.com>

(619) 606 -1786

PROFESSIONAL OBJECTIVE

Looking to work in a challenging and dynamic environment which provides me with opportunities to hone my skills.

PROFESSIONAL SUMMARY

Experienced, result-oriented, resourceful software engineer with extensive background in big data, machine learning and web application development. Experience in analyzing requirements, designing and developing a complex application using a wide array of technology.

ACADEMIC DETAILS

Master of Science in Computer Science
San Diego State University, San Diego, CA

August 2012-May 2015 (GPA: 3.62)

Bachelor of Engineering
CMR Institute of Technology Bangalore, INDIA

May 2005 – May 2009 (GPA: 3.65)

TECHNICAL DETAILS

Programming Languages: JAVA, JavaScript, SQL, Python

Tools: Jenkins, Github, Docker, Terraform

Cloud: AWS (S3, GLUE, Step Functions, ECS, QuickSight, Athena, Lambda)

Applications: Apache NiFi, Kafka, Athena, AngularJS, Prometheus, Grafana

PROFESSIONAL EXPERIENCE

FIREEYE, Reston, VA - Staff Software Engineer, Data Science

October 2015-Present

- I'm responsible for exploring new data sources and sharing my findings with the data scientists. I help evaluate new tools and technologies for the team
- Have designed and built various serverless pipelines using **AWS STEP-FUNCTIONS, GLUE, ATHENA** to perform ETL which have resulted in scalable and cost effective solution
- Re-designed and developed a critical ingestion pipeline that processes over 100 GB of data per minute. These pipelines write to various datastores such as **S3, RDS**. Built over 20 workflows to accomplish this and implemented monitoring across these workflows using **Prometheus, Grafana** to notify of any issues
- Built data pipelines to ingest feedback/telemetry data of the model's performance. Created a meaningful dashboard using **AWS QuickSight** to help easily evaluate the model's performance
- Designed and built scalable serverless API using **AWS API Gateway** and **Lambda** for various services
- Have built various **KAFKA** streams applications to process and enrich data
- Worked with data scientists to run ad hoc jobs by building scalable applications using **ECS**
- Have worked on front-end development using **AngularJS**

QUALCOMM, San Diego, CA -Software Engineer

March 2014-October 2015

- Worked on an automation framework for IMS in **PERL** which was widely used by Test, Integration and Development teams. I was actively involved in developing proof of concepts
- I developed a post-processing tool in **PYTHON** for validating SIP signaling which completely eliminated the need for an engineer to analyze manually which in turn saved them hours in test execution.

CYMER INC, San Diego, USA- Summer Intern

July 2013- September 2013

- Worked as a summer intern at CYMER Inc. I was involved in developing web applications in **ASP .NET**, wrote queries in **SQL** which were used in report generation. I optimized existing queries which helped improve load time of web application.

San Diego State University, San Diego, USA- Graduate Assistant

February 2013- June 2013

- Worked as a Graduate Assistant at LARC lab (Language Acquisition Resource Center). My Responsibilities included development, debugging, maintenance of web applications in ASP .NET and PHP and maintain the server for these web applications.

San Diego State University, San Diego, USA- Student Assistant

February 2013- June 2013

- Worked as a student assistant under Dr. Roger Whitney. My responsibilities include helping students understand **Android** development and also grading assignments developed by them.

Infosys Technologies Limited, Bengaluru, INDIA – Senior Systems Engineer

October 2009 – July 2012

- Led a team of 8 engineers in the design and development of an Accounts payable application. The application was used to approve and track invoices through their life cycle and it interacted with ERP. I received client appreciation for my central role in increasing the client's productivity by over 60% and the entire team was awarded "Best Team Award". The project was built using **Microsoft SQL server** and **.NET framework**.
- Worked with a team of 4 engineers to design and develop a workflow engine. I won the "Extra Miler" award for my effort and dedication in the development of the workflow designer, for resolving major hurdles and reducing the cost of operation by about \$25000 per implementation of the product by removing third party dependency. The application reduced the time taken to design complex workflows by 35%. The engine was developed in .NET using **Windows Services** and **Microsoft SQL**. The UI for designing the workflow was developed using **Microsoft Silverlight**.
- Developed a remote server maintenance tool with the capability to monitor server health and check the status of services running on the server.