

SOFTWARE ENGINEER

Software engineer with a focus on distributed and large scale systems. Experienced in algorithm design and implementation pertaining to large scale systems and distributed systems.

PROFESSIONAL EXPERIENCE

Amazon ✦ Seattle, WA ✦ 2015-Present

Software Development Engineer

- Designed and developed multi-purpose variable calculators for a fraud detection workflow system that enabled the production of atomic and aggregated variables and signals for downstream machine learning models.
- Designed and developed a testing framework that accepted use cases in human-readable key-attribute formats instead of code. This reduced the development time and resulted in lesser operational overhead.
- Deep-dived into legacy and third-party systems to reduce service latencies, one of them to even one-tenth of p100.
- Owned projects of high-visibility to completion, including ones that reduced fraud by magnitudes.

Tango Analytics ✦ Irving, TX ✦ 2014-2015

Software Developer

- Designed a data type for spatial objects for the Pentaho Data Integration platform. Enabled PDI to be used for spatial operations along with ETL operations. The data type discounted the use of Alteryx for ad-hoc analysis resulting in reduced subscription fees.
- Developed several steps for spatial operations for the Pentaho Data Integration platform. Worked on algorithms to change between projection systems and functions like polygon split, drive time and trade area, computation of spatial information on geometries and geocoding abilities. This reduced the company's reliance on proprietary solutions and subscription costs.
- Developed service oriented architecture based pipeline for internal services. The system increased productivity by enabling interaction between otherwise disparate systems.

Tango Analytics ✦ Irving, TX ✦ 2014

Software Developer Intern

- Developed plugins for Alteryx to build drive time polygons on the fly reducing processing time for analysts and increasing productivity.
- Developed a proof of concept of a Service Oriented Architecture based infrastructure in JAVA that enabled multiple instances of the same service to attach to the pipeline and process data in parallel. Reduced time consumption for long running processes and increased overall productivity.

Amazon ✦ Seattle, WA ✦ 2013

Software Development Engineer Intern

- Developed a new transmuting process (for the Amazon SOA platform) using generated code instead of visitor pattern which made the code base simpler and gained a performance increase of 18%.
- Monitored performance increase by benchmarking against previous transmuting processes. Developed and implemented an automated process to benchmark and collect metrics.

Infosys Ltd. ✦ Chennai, Tamilnadu ✦ 2010 - 2012

System Engineer

- Developed and maintained Microsoft's internal applications pertaining to batch jobs. Wrote batch jobs and monitors to detect failures automatically which increased productivity and efficiency.
- Implemented supporting applications to automate processes reducing time to completion.

Freelance Developer ✦ 2009 - 2012

PHP Developer

- Designed and developed a SOA based platform for social network and email collaboration (Zelinx.com). The business went on to be supported by Microsoft later.
- Designed and developed content management systems for MotiveMinds and DropMiddleMan, reducing the need to keep developers on premise.

EDUCATION

The University of Texas at Dallas, Richardson, TX: 2014

Master of Science: Software Engineering

- **Teaching Assistant:** 2012, 2013 – Tutored, graded and assisted students with learning C++.

Relevant Projects:

- Cyberminer Search Engine: Collaborated in development of a search engine with crawling and indexing features (Software Architecture and Design Course) in JAVA.
- Android app for the physically challenged: Collaborated in designing an Android app for the physically challenged (Requirements Engineering Course). Gathered requirements and formulated the design plan.
- Monitor VM security in OpenStack Cloud platform: Collaborated in monitoring and preventing attacks on an OpenStack cloud platform (Cloud Computing Course). Implemented automated processes for it.

Gandhi Institute of Engineering and Technology - Gunupur, Orissa, India: 2010

Bachelor of Technology: Computer Science and Engineering

Relevant Projects:

- Easy Clipboard Manager: Developed a clipboard manager to enhance the functionality of the default Windows clipboard manager in C# .NET. The project won awards at tech-fests at SRM University, Chennai and was a finalist project at the Indian Institute of Technology, Kharagpur.

