https://www.linkedin.com/in/jiten2
https://github.com/jiten-thakkar
http://stackoverflow.com/users/1557676/delta

JITEN THAKKAR

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EDUCATION

Master of Science in Computer Science **Fall 2015 – Spring 2017**
University of Utah, Salt Lake City, Utah GPA - 3.6
Graduate Coursework: Distributed Systems, Big Data Computer Systems, Parallel Programming, Rigorous System Design, Advanced Compilers, Computer Architecture

B.Tech in Information and Communication Technology **Fall 2009 – Autumn 2013**
Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, India

EXPERIENCE

Research Assistant, SOARLab, School of Computing, University of Utah **Jan 2016 – Present**
- Added **memory safety** features like **array out of range access**, **memory leak** to symbolic verification tool SMACK(http://smackers.github.io) .
- The feature was added by implementing **LLVM module pass** in **C++** which generates different memory safety checks to insure memory safety properties.

Software Engineer, Pipemonk (Formerly Zapstitch) **May 2014 – July 2015**
- Joined startup as back-end developer at early stage and contributed towards development of a microservice approach based modular platform for data integration in **Java Spring framework**. This allowed easy and fast integration of different data sources to the platform and target larger group of customer base.
- This development work led to a funding round of **$2 M**.

Software Engineer, Neptune IT GmbH **June 2013 – April 2014**
- Developed banking solution for Home Savings bank using Java Spring MVC framework with Agile development techniques.

Software Developer Intern, IBM Research **Jan 2013 – Apr 2013**
- Developed an efficient API in Java which provides electric energy consumption data to create an easy to use interactive interface that encourages users to follow suggestions related to usage of appliances.

Software Developer Intern, Google Summer of Code for Mozilla **May 2012 – Aug 2012**
- Created a **Networking tool** for **Mozilla Firefox as open source contributor**, which displays statistical data about different network protocols of the browser that helped debugging web page performance and connectivity issues.
- The interface exposing this data is written in C++, and the Add-On demonstrating the use of the data is written in JavaScript.

TECHNICAL EXPERIENCE

Projects
- **Stock Prediction –** Applied sentiment analysis techniques to stock related news articles to successfully predict stock market trends. Used Apache Spark for big data processing. **Project** Report: https://goo.gl/EEszfN
- **Sharded Key/Value Service** – Developed Paxos based persistent sharded Key/Value service in Go as part Distributed Systems class.
- **Calculator Language Compiler –** Implemented compiler for a simple calculator type programming language using LLVM compiler suite. Wrote recursive descent parser in C. The implementation can be found here - http://goo.gl/UnbY17

Programming Languages and Technologies
- Java, C, C++, Go, Python, Javascript
- LLVM, Nvidia CUDA, Apache Spark, Spring MVC, Spring MVC, Spring Data, Angular JS, Maven, AWS, Unix, Windows