AMIT SRIVASTAVA

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OBJECTIVE

Full-time position as software engineer

ACADEMICS

Worcester Polytechnic Institute (WPI), Worcester, MA
Master of Science, Computer Science, 3.3/4.0, May 2017
Rajiv Gandhi Technical University (RGTU), Bhopal, India
Bachelor of Engineering, Computer Science, 3.5/4.0, June 2008

SKILLS

Languages: C, C++, C#, Java, Python, Perl, SQL, JavaScript| Tools: Tcpdump, Netem, Wireshark, git, gdb, ActiveMQ, VirtualBox, Visual Studio | Databases: Redis, Oracle 11g, PostgreSQL, MySQL | AWS: Kinesis, Redshift, S3, Lambda, Cloudformation| JSON, XML| Other: Agile, Appveyor CI, Circle CI, JIRA

PROJECTS

- Masters' Thesis, WPI
  Evaluation of QUIC protocol's response to network congestion in comparison with TCP with the aim to determine the fairness towards competing flows.
- Network Control Policy Comparison for SDNs, WPI
  Designed and implemented traffic control policies for host-based and switch-based SDNs to compare the effectiveness and the extent of fine grained traffic control available on each.
- Voice Chat App, WPI
  Implemented a voice chat application in a team of two that uses socket programming and a speech burst detection algorithm. Aim was to learn how noise is digitally re-moved from live and recorded audio files.
- Chat Application, WPI
  In a team, implemented a chat and file sharing application using socket programming in C/C++.

EXPERIENCE

Systems Software Engineer, TVision Insights   April-September 2017
Independently developed a scalable and fault tolerant data pipeline from scratch using C# native app for Windows, AWS Kinesis for queuing, Python based Lambda for business logic and Redshift for storage at a startup that analyzes TV viewing in homes.

Software Engineer Intern, Senscio Systems Inc.   May-August 2015
Independently designed, developed and deployed a web portal for data access, from scratch, at a healthcare startup using HTML and JavaScript for front end, Perl and Apache server for backend and MySQL as a database. This tool provides operations team remote access to information in a secure way.

Associate-Projects, Cognizant Technology Solutions   July 2011 – July 2014
Developed enterprise SOAP web services in C, C++, ActiveMQ and SQL for customer communication for an online trading application built on SOA platform. Developed a bug detection tool in Python, HTML and JavaScript for grabbing logs from production servers.

Systems Engineer, Tata Consultancy Services   Oct. 2008– June 2011
Verified the functionality of Deep Packet Inspection (DPI) module inside Quality of Service (QoS) component on enterprise routers using TCL scripts. Updated the testbed setup and router configuration libraries with new features. Developed a report generation module for a ticketing tool in JSP and MySQL.