www.linkedin.com/in/vedant-goyal-14288095

EDUCATION

University of California, San Diego

Master of Science, Computer Science; GPA: NA

Sep 2018 - Present

Email: vegoyal@eng.ucsd.edu

Mobile: +1-612-532-9737

University of Minnesota, Twin Cities

Bachelor of Computer Engineering; GPA: 3.90

Minneapolis, MN Aug 2014 - Dec 2017

Experience

Boston Scientific

Minneapolis, MN

Software Engineer

May 2017 - Aug 2017, Apr 2018 - Aug 2018

- Predictive Risk Modelling: Identified over 50% of high risk suppliers by creating predictive model based on supply base data to proactively mitigate quality issues and prevent field failures in critical medical devices
- o Data Warehousing: Delivered real time supplier performance by building SQL server database and metrics processing engine for quality records using SQLAlchemy, Pandas and PyQt

Medtronic Minneapolis, MN

Software Engineering Intern

May 2016- Aug 2016

• Testing Framework: Created automated C++ testing framework for patient management devices which simulated different event states when uploading data to cloud servers using Quantum Platform

PledgeMe Minneapolis, MN

Ruby on Rails App Development

Jan 2015 - Aug 2015

- User Roles and Permissions: Implemented authorization and access for different user access levels
- API Management: API integration for Facebook, Twitter and Bitly with RESTful Design and Oauth Security
- Responsiveness: Made application responsive and fluid for mobile devices by redesigning pages, improving content compression and optimization

University of Minnesota

Teaching Assistant and Outreach

Minneapolis, MN

Jan 2015 - Dec 2017

- Teaching Assistant C++: Taught Lab sections for undergraduate course 'C/C++ for Scientists and Engineers', assisted in office hours and grading
- MnDRIVE Outreach Scholar: Taught Arduino development, programming and robot design to K-12 students. Mentored robotics teams, organized workshops and summer tech camps

PROJECTS

• Cinema Analytics

Oct 2017 - Nov 2017

- o Analyzed movie datasets to identify trends and insights in movie success, consumer interest and other attributes using Cluster Analysis and Regression Algorithms
- o Used Apache Cassandra and Spark connected framework to handle large volume of data and achieve fast queries

• Stochastic Computing Methods

Aug 2016 - May 2017

- o Designed novel logic circuits with extremely high efficiency compared to those used conventionally using random
- Created custom python modules that perform a range of mathematical operations in a stochastic bit-stream paradigm for these novel circuits

• Predictive Crime Mapping

Apr 2017 - May 2017

o Created predictive crime hot spot mapping based on Minneapolis crime data using Used Naive Bayes, Decision Trees and ANN algorithms

• Group Testing Algorithms

Nov 2015 - April 2016

- Developed efficient group testing algorithms that work non-adaptively on large graphs with special schemes like unreliable nodes
- Implemented simulations of C++ algorithms on large graphs with over 10 million nodes using OpenMP to leverage parallel processing at Minnesota Supercomputing Institute

San Diego, CA