SHIVANG SINGH

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EDUCATION

University of Texas at Austin — **2017-2021**
- Pursuing BS in Computer Science and Minor in Statistics
- Coursework: Data Structures, Discrete Math, Multivariable Cal, Comp Arch, Statistics (GPA: 3.5)

Liberal Arts and Science Academy High School — **2013-2017**

EXPERIENCE

Software Engineering Intern- (The Home Depot) — **Summer 2018**
- Worked with the product management team to evaluate the monetary savings and the business value of a new cloud based data management product for backups/restores of servers by interviewing ITO teams and analyzing 1000+ Service Now tickets sent to the operations teams for restoring servers
- Installed and configured the backup/restore product onto virtual machines using VMware's vSphere and used Puppet orchestrator to configure backup restores onto existing physical servers
- Developed a Python Flask web application (backup as a service) to give application teams access to backup /restore functionalities, such as adhoc backups, file level restores, and setting retention policies

Software Developer Intern - (Face-to-Face Integrated Technologies) — **Summer 2017**
- Prepared and integrated Crystal reports into a .Net based web application used for managing the child welfare program of South Dakota tribes

Data Analytics Intern - Hofmann Labs (UT Computational Biology) — **Summer 2016**
- Using R and data analytics libraries in Python, processed and analyzed gene expression data for visualization to test the embryo development Hourglass Hypothesis
- Used PCA and K-means clustering approaches to cluster the different embryo stages together by the frequency with which each transcriptome was being expressed

Research Intern - Molecular and Computational Biology (University of Texas at Austin) — **2014-2015**
- Using Perl scripting and supercomputing technology of University supercomputer Lonestar, assembled genomes of various bacteria from sequencing data generated by Illumina

PERSONAL PROJECTS

Education Guide, app for College Guidance (shivangsingh.com/eduguide.html) — **2017-present**
- Developed an Android app with a web component that provides students recommendations on colleges and extracurricular activities using a Python based clustering algorithm that uses the data of students with similar profiles and interests to generate suggestions

Geographic Interactive Map (shivangsingh.com/map.html) — **2018-present**
- Inspired by projects such as arcGIS and Python geolib2, made a web application that allows users to generate interactive maps to embed into their own projects

Urban Heat Island Mobile App (urban-heatisland-project.appspot.com/) — **2017**
- Built an application to help the City of Austin track the location of an urban heat island

EXTRACURRICULARS

University Computational Finance — **2018**
- Used quantitative strategies and statistical modeling, such as finding the difference between S&P realized volatility and implied volatility during a period of interest rate hikes, to examine investment positions

SKILLS AND TECHNOLOGY

Proficient: Java, R, Python, Android Studio, XML, HTML/CSS/JavaScript/Ajax, C, Flask
Exposure: Perl, MongoDB, C++, MySQL, Bash, Powershell, Git, .Net, VMware, React, Node.js, JQuery

HONORS AND AWARDS

University Honors	**2018**
Texas State University Best Scientific Writing Award	**2017**
National Spanish Exam Silver Medalist	**2014**