SHASHANK SAXENA

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▶ employment

Capital One — Data Engineering Intern
May 2017 to Current
- Designed scalable architecture and database schemas for use with existing Capital One technologies
- Monitored new domain registrations and implemented a scanning system to check for phishing websites
- Worked with Apache Kafka, Accumulo, Spark, and PostgresDB with SQL integration

NCSA — Software Development Intern
Jun 2017 to Current
- Designed a revision control system that is being used across several clusters of nodes
- Deployed GitLab and included some extra scripts to generate log files
- Used Python to handle all automation and logged all data into CSV files. Used numpy and pandas to view and export data

Reconstruct — Software Engineering Intern
Sep 2016 to Dec 2016
- Worked in the initial stages of startup that dealt with visualizing construction sites
- Maintaining backend server that serves as a portal to the website
- Using Node.js, AWS S3, and GitHub

AllState — Application Developer Intern
May 2016 to Aug 2016
- Automated a large chunk of the processing of policy information
- Worked mostly on internal web apps (backend)
- Used C# and XML in Visual Studio along with SQL Server Management Studio with LINQ queries

StateFarm — Software Engineering Intern
May 2015 to May 2016
- Implemented an internal Windows application that for marketers to keep track of incoming customers
- Used VB.NET and Microsoft's Jet engine
- Updated and completely reworked internal website for interns
- Used MEAN stack with backend focus

DotStar — Project Manager
Aug 2015 to Dec 2015
- Selected for course staff for CS196 - Honors introductory class
- Worked on Android app that would incorporate several different social networking sites into one, centralized location
- Lead a team of freshman using the Android SDK, and various social networking APIs

▶ projects

Enrich - Hackathon (Sponsor Winner)
- Developed backend to app that would take portion of payments to the stock of what was paid for
- App intended for people with limited knowledge of the stock market to implicitly invest into stocks
- Used Node.js, ExpressJS, MongoDB and GitHub

phoneify - Open Source Contribution
- Built an npm module that would ease in the parsing of US phone numbers in a couple of different formats
- Over 1000+ downloads

Riskulizer - Hackathon (2nd Place Winner)
- Developed backend to app that visualized data from calamities and displayed affected areas
- Goal was to convert data into a visualization (around 100k+ data points)
- Used Flask as a RESTful API service, and various front-end graphing libraries in JavaScript

Homefront - Hackathon
- Created a Pebble smartwatch app that gets the status of your home based on sensor information
- Used CloudPebble with PebbleJS and AllState's Internet of Things (IoT) API

MangOS
- Made a kernel from nearly nothing
- Implemented file systems, hardware initializations, execute/halt, interrupts, and scheduling
- Used C and x86

VRMD - Subteam Lead Developer
- Updated VR project dealing with safety awareness training focusing on laparoscopic and heart surgery with human body
- Used Unity, C#, and the Oculus SDK with Oculus Touch integration

Many more on GitHub!

▶ education

University of Illinois Urbana-Champaign
B.S. Computer Engineering 2018

▶ skills

EXPERIENCED WITH
Java
C++
C
x86
Python
JavaScript
Node.js
HTML/CSS
VB.NET/C#
SharePoint
NoSQL
Flask
Apache Spark

FAMILIAR WITH
SQL
Swift
MATLAB
Django
React.js
React Native

▶ courses

Virtual Reality

Data Structures

Computer Systems & Programming

Discrete Structures

Data Science

Machine Learning

Systems Architecture and Design

▶ activities

IEEE@UIUC

ACM@UIUC

SIG WebMonkeys

Chair of SIG VRST

ADSA