

SHASHANK SAXENA

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► employment

Capital One

May 2017 to Current

Data Engineering Intern

- 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 PostgreSQL with SQL integration

Reconstruct

Sep 2016 to Dec 2016

Software Engineering Intern

- 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

StateFarm

May 2015 to May 2016

Software Engineering Intern

- Implemented an internal Windows application that let marketers 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

NCSA

Jun 2017 to Current

Software Development Intern

- Designed a revision control system that is being used across several clusters of nodes
- Deployed GitLab and included 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

AllState

May 2016 to Aug 2016

Application Developer Intern

- 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

DotStar

Aug 2015 to Dec 2015

Project Manager

- 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 and invest it in the receiving business
- 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

- Designed 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

► 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
Operating Systems
Text Information Systems

► activities

Chair of SIG VRST
ACM@UIUC
SIG WebMonkeys
ADSA