

# 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

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  
Operating Systems  
Text Information Systems

## ► ACTIVITIES

Chair of SIG VRST  
ACM@UIUC  
SIG WebMonkeys  
ADSA