# SHASHANK SAXENA

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## EMPLOYMENT

**Amazon Web Services** · **Software Engineer | East Palo Alto, CA**
Aug. 2018 to Current
- Executed the test plan for the transactions API (launched in AWS re:Invent 2019)
- Updated operational tools for global tables + reduced redundant logging to save over 99% of log space
- Developed the new global table APIs in DynamoDB (version 2019.11.21) used by over 10% of all customers

**GSI** · **Software Architect Intern | Champaign, IL**
Nov. 2017 to May 2018
- Created internal test environment for developers that interface with GSI
- Architected an in-house distributed cluster using socket programming + I/O pins
- Used Node.js, Raspberry Pi (GPIO), Python3

**Capital One** · **Data Engineering Intern | Champaign, IL**
May 2017 to Oct. 2017
- Designed scalable architecture and database schemas for use with existing Capital One technology
- Implemented a 4-way pipeline to process big data and served content through RESTful web API
- Worked with Apache Kafka, Accumulo, Spark, and Flask

**AllState** · **Application Developer Intern | Northbrook, IL**
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

**Reconstruct** · **Software Engineering Intern | Champaign, IL**
Sept. 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
- Used Node.js, AWS S3, and GitHub

**StateFarm** · **Software Engineering Intern | Champaign, IL**
May 2015 to May 2016
- Implemented an internal Windows app to track telemarketer information
- Updated and completely reworked internal website for interns
- Used VB.NET, Microsoft's Jet Engine, and MEAN stack

## PROJECTS

**SDFS - Simple Distributed File System**
- Created a fault-tolerant distributed file system from scratch
- Intended to simulate how files are stored "in the cloud"
- Used Java and 10 virtual machines all connected on the same network

**phoneify - Open Source Contribution**
- Built an npm module that would ease parsing of US phone numbers in 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

**MangOS - Team Project**
- Designed a Linux kernel from nearly nothing
- Implemented file systems, hardware initializations, execute/halt, interrupts, and scheduling
- Used C and x86

**HomeFront - Notable Mention**
- Created a Pebble smartwatch that receives the status of your home based on sensor information
- Used CloudPebble with Pebble.js and AllState's Internet of Things (A6) API

**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
May 2018
U.S. Citizen

## SKILLS

**PROFICIENT WITH**

Java
C++
C
x86
Python
JavaScript
HTML/CSS
VB.NET/C#

**FAMILIAR WITH**

SQL/NoSQL
MATLAB
Apache Kafka
Apache Spark
Apache Accumulo
Node.js

## COURSES

Signal Processing
Artificial Intelligence
Text Information Systems
Virtual Reality
Computer Systems Programming
Data Science
Distributed Systems
Operating Systems

## ACTIVITIES

Chair of SIGVR
ACM@UIUC - Exec Member