SHASHANK SAXENA

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EMPLOYMENT

Amazon Web Services · Software Engineer | East Palo Alto, CA
Aug. 2018 to Current
- Working on DynamoDB

GSI · Software Architect Intern | Champaign, IL
Nov. 2017 to May 2018
- Created a test environment for internal web developers that interfaces with the GSI Edge controller
- Architected an in-house distributed mini-cluster to using socket programming + I/O pins
- Used Node.js, Raspberry Pi (GPIO), Python3 - made from scratch

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

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

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

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

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

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

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