

Saket Mahajan

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EDUCATION

Santa Clara University

Master of Science in Computer Science

Coursework: Design Analysis and Algorithms, Advanced Operating Systems, Web Architecture and Protocols, Advanced Database System, Advanced Web Programming, Wireless and Multimedia Networks

Santa Clara, US

Sept 2018 - Present

Vellore Institute of Technology

Bachelor of Technology in Computer Science

Coursework: Embedded Systems, Computer Networks, Software Engineering, Database systems, Data Ware- housing and Mining, Human Computer Interaction, Object-Oriented Programming

Vellore, IN

July 2014 - May 2018

KEY SKILLS

Programming Skills: C, C++, Java, Python, Shell, LATEX

Cloud: AWS, Google Cloud Platform, IBM Cloud

Web Development Skills: HTML, CSS, PHP, ReactJS, AngularJS, Ruby, Rails

Database: PostgreSQL, MySQL, MongoDB

Analytics: MATLAB, IBM SPSS Statistics, R Studio, Google Analytics, Bing Analytics

Tools: Apache Cordova, VS Code, Office 365, Adobe Dreamweaver, Android Studio, Cypress

EXPERIENCE

Software Engineer Intern

Infor500

June 2019 - Present

- Design and develop new web application using ReactJS, Typescript, GraphQL
- Develop Postgres SQL triggers, functions and procedures
- Team collaboration and task integration in the Agile methodology using Jira and Bitbucket
- Conducted end-to-end tests using Cypress

Software Engineer Intern

hIoTTron

May 2017 - July 2017

- Built an application for real-time data monitoring from Electric-Power Meter and Smart Locks
- Created a multi-purpose library by integrating libraries from Arduino UNO, Arduino MEGA, NodeMCU
- Tested the multi-purpose library on smart devices involved in home automation

PROJECTS

Increased efficiency in container deployments by mitigating cold starts

June 2019 - October 2019

- Devised a system to address cold start in Serverless Computing by exploiting content similarity
- Implemented system based on peer-to-peer network, virtual file-system and content-addressable storage
- Project resulted in increased compute availability, and reduced storage requirement for the cloud provider

Chatbot Application

March 2019 - June 2019

- Chat application aimed at answering personal questions about me
- Initially developed a chat application using AWS services like Lex, S3, Lambda
- Extended usage of ChatBot with the usage of Deep Learning and Facebook data

Smart Home Hub

Jan 2019 - March 2019

- Created a Smart Home Hub using ESP32 microcontroller, LCD screen and proximity sensor
- Displays email, events, weather forecast and estimated time to arrival to your desired location on LCD display in addition to one's personal website
- Integrated with REST API of Google and OpenWeather to extract data such as Gmail, weather forecast, etc
- Developed Android, iOS app using PhoneGap framework to control proximity sensor

Secure Real-Time Vehicle Tracking

Oct 2018 - Dec 2018

- Implemented a cloud application in IBM Bluemix for secure real-time vehicle GPS data transfer from vehicle to the monitoring system hosted in the cloud
- Built an Android mobile application to record and transmit data to IBM Bluemix

PUBLICATION

- Exploiting content similarity to address cold start in container deployments, ACM CoNEXT'19 Companion.