Saket Mahajan

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EDUCATION

SANTA CLARA UNIVERSITY

MS IN COMPUTER SCIENCE AND

Engineering

Expected June 2020 | Santa Clara, CA

EDUCATION

VELLORE INSTITUTE OF TECH-NOLOGY (VIT)

B.Tech. IN Computer Science and Engineering (CSE)

Graduated Sept 2018 | Vellore, India

COURSEWORK

Design Analysis and Algorithms
Operating Systems
Embedded Systems
Computer Networks
Agent-Based Intelligence System
Computer Architecture and Organization
Software Engineering
Database Systems
Mobile Computing
Image vision and Computing

SKILLS

PROGRAMMING

Green Computing

C • C++ • C#
MATLAB • Python • Shell
CSS • HTML5 • PHP • JavaScript
MySQL • Android • R • LATEX

DEVICES

Raspberry Pi • BeagleBone Black Arduino UNO • Arduino MEGA Arduino Pro Mini • NodeMCU

SOCIETIES

2014 Gravitas Tech Fest Coordinator 2015 SAP student ambassador 2015 AIESEC 2016 Yuva Marathi

NON-ACADEMIC

2017 Sales and Marketing Head at Yuva Marathi

2015 Corporate Finance Intern at AIESEC Mauritius

PROJECTS

DESIGNING AN EFFICIENT WIRELESS SENSOR NETWORKS | PROJECT AT VIT

Dec 2017 - May 2018 | Vellore, India

- The project aimed at designing efficient Wireless Sensor Networks on the likes of discovering the shortest path and critical node monitoring
- Implemented the Shortest Path Routing Algorithm for finding the shortest path
- Implemented the Ant Colony Optimization for identification of critical nodes
- Merged both the algorithms to design an efficient Wireless Sensor Networks

VIT CLOUD COMPUTING LAB | RESEARCH ASSISTANT AT VIT

Jul 2017 – Dec 2017 | Vellore, India

- Implemented the Grey Wolf Optimizer (GWO) algorithm for minimizing energy consumption in wireless sensor networks
- Experimented and showed that GWO minimized energy consumption by 17% and 12% when compared with PSO and FA algorithms respectively

SMART BED FOR HOSPITALS | TEAM PROJECT AT VIT

Jan 2017 - May 2017 | Vellore, India

- Designed a Smart Bed for Hospitals for monitoring patients
- Used BeagleBone Black to design the Smart Bed for Hospitals
- Reduced Smart Bed costs by 60% by using an event trigger approach for power consumption.

MOBILE AND GREEN COMPUTING | RESEARCH ASSISTANT AT VIT

Sept 2017 - May 2018 | Vellore, India

- Developed an algorithm to minimized database transaction costs using Ant-Colony Optimization (ACO) and Google API
- Modeled SQL queries as individual nodes as an input to ACO
- ACO's output was the optimal order in which the SQL queries should be executed
- Implemented an algorithm to compute optimal path using ACO for delivery network minimizing the time taken and fuel consumption

SECURE REAL-TIME VEHICLE TRACKING | TEAM PROJECT AT VIT

Jul 2016 - Dec 2016 | Vellore, India

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

EXPERIENCE

HIOTRON | EMBEDDED ENGINEERING INTERN

May 2017 - July 2017 | Pune, India

- Designed 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 library execution on all the platforms in home automation applications