Haramrit Singh Khurana

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EDUCATION

Master of Science, Computer Science | GEORGE MASON UNIVERSITY | GPA 3.76

2019 - 2021

Coursework: Algorithms, Systems Programming, Object Oriented Design, Database Systems, Component-based Software Engineering

Bachelor of Engineering, Computer Engineering | UNIVERSITY OF MUMBAI | GPA 4.0

2015 - 2019

1st Runner Up- Best Senior Thesis; 2nd Runner Up – Mumbai Hackathon (2017)

WORK EXPERIENCE

Software Engineer Intern | Nexus 8 International, Washington DC | Internship

May 2020 - Aug 2020

- Individually developed two major web components using ASP.NET Core framework and Blazor in compliance with HIPAA
- Optimized the image upload process and decreased the upload time by 30% on average
- Developed test cases and performed unit testing of the application before release to the stakeholders
- Identified and analyzed new business and functional requirements as a part of requirement gathering sessions with customers

Backend Developer Intern | Don Bosco Institute of Technology, Mumbai | Internship

Jun 2018 - Dec 2018

- Developed the plan and headed the team that implemented remodeling of the website Don Bosco Journal of Science and Engineering using Node.js, Express and MongoDB
- Designed and implemented a secure tag-based paper-reviewer matching algorithm to automate the review assignment process

OTHER POSITIONS

Teaching Assistant - IT207: Applied IT Programming | George Mason University, Fairfax, VA

Aug 2019 - Present

Designed and graded assignments and exams, held office hours, and helped students understand the core concepts of web programming in PHP

Technical Head - ACM-DBIT | Don Bosco Institute of Technology (DBIT), Mumbai, India

Jul 2017 - May 2018

Organized Teknack, a two-day intercollegiate online gaming festival featuring more than 10 games (Single-Player, Multi-Player & Open World). Games were played over 25000 people, a significant markup of 28 % from Teknack '17

SKILLSETS

Programming Languages: Python, Java, C, C#

Database Systems: MySQL, MongoDB, Oracle

Frameworks: React Native, Angular6, Django, Swing, Hibernate JPA,

Bootstrap, Node.js, Spring Boot

Other: GitHub, SDLC, Docker, Kubernetes, Jenkins, Android, JUnit, Tableau, Linux, REST, Amazon Web Services

Areas: Distributed Systems, Algorithms, Operating Systems, Data

Mining, Machine Learning, Statistics

PROJECTS

Portfolio Website

- Designed and developed a portfolio website using ReactJS, hosted on GitHub Pages with an auto-deploy setup with a push event trigger
- Incorporated XSS input sanitization using DOMPurify to prevent against cross-site scripting attacks

wha2do

A minimal design to-do list Android app built using **React Native** and **Firebase**.

Implemented swipe gestures to make it easier for the user to mark task status



SpaceTerra

- A single player JavaScript game that went live for ACM-DBIT's online gaming fest, Teknack 2017
- Utilized Phaser.io game engine, Node.is and MongoDB to host the web application on a PM2 load-balanced Nginx server
- Played by over 12,000 players through the festival making it the most successful game of the event

NumPy for C

- An open-source C library for Vectors, Arrays and Number Systems totaling 96 functions that were 2x faster than Python equivalents
- Won 2nd Runner Up at Mumbai Hackathon (2017)

Student Survey Form

- Employed Docker and Kubernetes for containerization, Jenkins for continuous integration and deployment and GitHub for version control
- Wrote and **deployed RESTful API** for CRUD operations with **Lambda** and **DynamoDB**.

A Resource Effective Approach for Distributing Machine Learning Models over a Cluster

- An interactive desktop application to facilitate the automation of the training process distribution over a local network
- Maintained accuracy and achieved an overall 10% reduction in model training time
- Technology stack: Electron.js and Batch scripting for developing the application, TensorFlow for devising the test models



CERTIFICATIONS

AWS Certified Solutions Architect – Associate (Amazon Web Services)

Jun 2020 - Jun 2023