Daanish Goyal

Linkedin: linkedin.com/in/daanishgoyal Github: github.com/daanishgoyal

EDUCATION

University Of Florida

Gainesville, Florida

Mobile: 352-888-3588

Email: dg5052@gmail.com

Master of Science - Computer Science; GPA: 3.45

August 2021 - December 2022

Courses: Analysis of Algorithms, Database Management Systems, Distributed Operating System Principles, Computer And Network Security, Software Engineering, Math For Intelligent Systems, Digital Health, Human-Computer Interaction.

Manipal University

Jaipur, India

Bachelor of Technology - Computer and Communication Engineering; GPA: 3.33

July 2017 - May 2021

Courses: Operating Systems, Data Structures and Algorithms, Cryptography and Security, Programming using C, Java Programming, Computer Architecture, Wireless Sensor/Adhoc Networks, Automata Theory.

EXPERIENCE

Software Development Engineer Intern

Franklin, Tennessee

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June 2022 - August 2022

- Collaborated in designing and implementing a Learning Management System and created RESTful APIs in Python using Flask for desired front-end integration.
- Implemented an auto-scaling and flexible cloud system by deploying web app using **EC2**, **VPC**, **RDS** and configured IAM roles to control **AWS** users and groups.
- o Defined automation and engineered CI/CD pipeline from scratch to migrate application to DevOps standard.

iOS Software Development Intern

Delhi, India

Neo Sypher Systems Pvt. Ltd.

May 2019 - July 2019

- Designed the User-Interface with **SwiftUI** and delivered RESTful API endpoints for an iOS Dictionary mobile application.
- \circ Tested and optimized performance by reducing 55% of load time and occasional lag through implementation of efficient code optimizations and profiling techniques.

Projects

- MyLearning Place (ReactJS, GO, MySQL, HTML, CSS)
 - Led a team of 4 to create a full-stack web application in an **agile** environment, followed and applied **HCI eight golden** design rules.
 - Instituted API endpoints, administered and maintained database, ran Unit and Cypress tests to deliver high-quality code and assisted with set up of **Docker** containers for deployment into Kubernetes Pods.
- Twitter Simulator(F#, AKKA.net, WebSharper, JSON, HTML, CSS)
 - Constructed a distributed client/server identical to Twitter utilizing Akka framework in F#, harnessing power of Actor Modeling to achieve concurrency.
 - $\circ\,$ Devised a JSON based API/website using WebSharper to implement the WebSocket interface.
 - Computed and enhanced performance by 35% through optimization and remodelling of actor model to simulate more than 100,000 users at once with load distributed across servers.
- Bit torrent Simulator (Java, Socket Programming)
 - Developed a **P2P** file-sharing system, using **TCP/IP** protocols, handshaking and bit-fields to track different pieces in peers.
 - Deployed efficient and industrial level code to make program robust and reduce execution time by 20% on remote linux servers situated in a different country.
 - Incorporated special message types to choke, un-choke thereby increasing download speeds up to 50%.
- $\bullet \ \ \mathbf{Vancouver} \ \mathbf{Crime} \ \mathbf{Trend} \ \mathbf{Analyzer}(SQL, \ \mathit{OracleDB}, \ \mathit{PHP}, \ \mathit{ChartJS})$
 - Designed & developed web interfaces to project complex SQL trend queries, from a real-time large scale Oracle database (upwards of **250,000 tuples**) focusing on retrieving new information from data set.
 - Interpreted and operated on real-life crime data provided by Vancouver city police department to discover numerous **meaningful trends** and further projected data-points by leveraging libraries like **ChartJS**.

TECHNICAL SKILLS

- Languages Python, Java, C/C++, Go, Swift, F#, Linux, SQL, Julia
- Frameworks Scikit-learn, Numpy, Pandas, TensorFlow, Django, Flask, NodeJS, ReactJS
- Tools Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite, AWS

Publications

• Cost Aware BAT Algorithm for Task Scheduling in Cloud Computing - ICRIC2021, Innovation Patent by the Australian Government.