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MUDIT GUPTA

mg14777.github.io

github.com/mg14777

EXPERIENCE

J.P. Morgan   Summer 2017
Incoming Summer Analyst
London, UK
- Selected for 2017 Technology Summer Analyst program

GameBench   Summer 2016
Software Engineering Intern
Bristol, UK
- Upgraded existing Java application allowing users to analyse network usage of their apps
- Used Application Resource Optimiser (ARO) API by AT&T during development process
- Attempted a Man-in-the-Middle attack to decipher encrypted HTTPS traffic for analysis purposes

J.P. Morgan   Spring 2016
Tecnology Spring Intern
Bournemouth, UK
- Gained an in-depth insight of the Technology division and its role in driving the core business
- Coding Challenge winner which involved building an AI for a robot tank in Java
- Work shadowed an analyst in the Derivatives department and attended presentations, workshops etc.

Spookfish Innovations   Summer 2015
Software Development Intern
Bangalore, India
- Developed a C++ application for real time person detection in live video using Histogram of Oriented Gradients
- Worked on Support Vector Machines (SVM) for classification
- Developed a C++ application for high precision measurement of industrial components using Object Coordinate tracking Lens Formula and RANSAC algorithm

PROJECTS

Meeting Room Booking System   2016
- Web application to book office meeting rooms via Google Calendar
- Involved extensive web development along with use of Google Calendar API

Scotland Yard Remote AI   2015
- Networked Java version of classic board game "Scotland Yard"
- Developed an AI by implementing Floyd Warshall, MiniMax and Alpha-Beta pruning algorithms
- Multi-Threading and precise mathematical rating functions improved performance by 20%

Fast Tube   2015
- Java Application that allows people to smoothly use London underground by efficiently planning their journey
- Used Dijkstra's algorithm to find shortest route to destination
- App maps the shortest route & calculates total distance & time taken for user's journey

EDUCATION

University of Bristol, UK   2014-2018
Master of Engineering (M.Eng.)
Computer Science (First Class)

National University   2016-2017
of Singapore
Exchange program
Computer Science

>_ SKILLS

Programming:
Java • C++ • C • Python • Haskell • SQL

Web & App Development:
HTML • CSS • JavaScript • Node.js • PHP • jQuery • Bootstrap • Android

Tools:
Git • MatLab • Eclipse • MS Visual Studio • Android Studio • Adobe Illustrator • LATEX

SELECTED COURSEWORK

Data Structures & Algorithms
Software Engineering
Operating Systems
Computer Networks
Databases
Human Computer Interaction
Machine Learning
Artificial Intelligence
Computer Graphics

AWARDS & OTHER EXPERIENCE

Dean's International Intern Scholarship
- Awarded to 10 students by Bristol university for excellent performance in summer internship

Teaching Assistant   2015-16
- Assisted students in weekly problem classes for an introductory math module
- Managed a class of 128 students