

EXPERIENCE

- **J.P. Morgan** Summer 2017
Technology Summer Analyst
London, UK
- Front end development using AngularJS to rebuild UI of an internal application
 - Connected the Angular front end to Python back end via a REST API
 - Patched existing Java codebase and reduced vulnerability score by 87% through input validation
 - Wrote scripts for UI testing using Selenium and unit testing in Python

- **GameBench** Summer 2016
Software Engineering Intern
Bristol, UK
- Upgraded existing Java application allowing users to analyse network usage of Android and iOS apps
 - Used Application Resource Optimiser (ARO) by AT&T to fetch network usage parameters like latency, response time, download duration and size etc.
 - Attempted a Man-in-the-Middle attack to decipher encrypted HTTPS traffic for analysis purposes

- **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 of feature sets
 - 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**
- Web application to book office meeting rooms via Google Calendar
 - Worked on the front using HTML, CSS and Javascript along with use of Google Calendar API
- **Scotland Yard Remote AI**
- 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**
- 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 of Singapore 2016-2017
Exchange program
Computer Science (GPA: 4.6/5.0)

> _ SKILLS

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

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

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