SCOTT JONES

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EDUCATION

University of St Andrews *2019 - 2023*
MSci Computer Science (Integrated Masters Degree) - Intended Graduation in May 2023
Averaging and on-track to achieve First Class Honours
Placed on Deans' List for exemplary academic achievement in the 2020/21 academic year
Relevant Modules:

- Data Structures and Algorithms
- Operating Systems and Systems Programming
- Computer Security
- Computational Complexity and Logic
- Artificial Intelligence
- Concurrency and Multi-Core Architectures
- Databases
- Data Communications and Networks

Colchester Royal Grammar School *2017 - 2019*
GCE A-Level Mathematics (A), Computer Science (A), History (A), Physics (B)
Awarded Speech Day Prize for Computer Science in 2018 and 2019

EXPERIENCE

American Express — Software Engineer Intern *June - August 2021*

- Developed a configuration and metrics dashboard for parallel-run internal payment network testing tool
- Led development of a backend API using Java and the Spring Boot framework to access test data and change configurations by interfacing with PostgreSQL database and Consul
- Used React to create a data-driven frontend UI dashboard with Chart.JS graphs to visualise test data, filtering and grouping options, and an interface to easily configure existing testing tools
- Regularly presented to vice-presidents, directors, and senior leaders
- Deployed our application to OpenShift enterprise cloud using Docker and Jenkins
- Skills: Java, Spring Boot, React, Docker, Jenkins, PostgreSQL, Git, SCRUM, Agile development

PROJECTS

Federated Social Media Network — Software Engineering Team Project *September 2020 - May 2021*

- Worked in a team to create a university-focused federated social media site with React and Django
- Represented my team in meetings with other teams to collaboratively design a protocol to federate content
- Produced regular progress reports and met regularly with our supervisor
- Used SCRUM methodology to develop in an agile way, organising regular SCRUM meetings remotely, building a backlog of user stories, and planning flexible development sprint cycles
- Skills: JavaScript, React, Python, Django, JSON, Node JS, Git, SCRUM, Agile development

AI Shakspearean Discord Bots — StacsHack 2021 3rd Place Prize *March 2021*

- Used Python, TensorFlow, and textgenrnn to train recurrent neural networks on Shakespeare for text generation
- Used the Discord API to create several bots, replying to eachother to act out a novel Shakespeare play in real-time
- Skills: Python, Git, TensorFlow

Simple Linux Shell and Virtual File System *October - December 2020*

- Used C to implement a simple Linux shell, with utilities including `cd`, `pwd` and environment variables
- Implemented a virtual File System using the File Allocation Table model, with volume boot record and operations to create, delete, and modify files
- Skills: C, Linux, Systems Programming

LANGUAGES AND SKILLS

- **Programming Languages:** Java (8 years), Python (4 Years), JavaScript (3 Years), C (2 Years), Haskell (1 Year)
- **Tools and Technologies:** Git, React, NodeJS, Django, JavaFX, JUnit, JSON, AJAX, Linux, Spring Boot, SQL

References can be provided upon request