SCOTT JONES

+44 7436 628706 — scott2000jones@gmail.com — github.com/scott2000jones — linkedin.com/in/scott2000jones

EXPERIENCE

Stripe — Software Engineer Intern (EMEA Bank Transfers) — *London, UK* *May - August 2022*

- Used Ruby and Amazon S3 to add functionality to the Stripe dashboard allowing merchants to download automatically generate bank transfer account ownership confirmation letters, freeing at least 1 hour per week for on-call engineers
- Produced technical scoping document for and implemented a deny-list for bank transfer refunds to prevent refunds to known pooled accounts, preventing scenarios causing 8+ hours of on-call work and 2+ day delays in customer refunds - used Ruby, Sorbet, MongoDB, and Mocha testing framework
- Completed solo code reviews for git pull-requests of other members of the EMEA Bank Transfers team
- Contributed to OKR planning and Sprint planning, managed Jira tickets, worked with legal and design teams
- Wrote and published a section on dashboard confirmation letters to the Stripe docs `[link]`

American Express — Software Engineer Intern — *Remote, UK* *June - August 2021*

- Developed a configuration and metrics dashboard for internal payment network testing tool, allowing business representatives to reconfigure the tool in minutes instead of days, freeing engineers from configuration requests
- 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 cloud storage
- 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
- Deployed the application to OpenShift enterprise cloud using Docker and Jenkins

EDUCATION

University of St Andrews *2019 - 2023*

MSci Computer Science (Integrated Masters) - Graduating May 2023 - On-Track for 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, Concurrency and Architecture
- Computational Complexity and Logic
- Artificial Intelligence

Colchester Royal Grammar School *2017 - 2019*

GCE A-Level Mathematics (A), Computer Science (A), History (A), Physics (B)

PROJECTS

MSci Dissertation — QEMU Native Shared Library Accelerator *September - December 2022*

- Extending research modifying QEMU emulator to run guest calls to shared libraries natively on the host system
- Tracking register liveness and parsing ELF files to automatically detect shared library calls
- Protecting guest memory and catching unauthorised accesses to allow function pointers to detect function pointers as shared library call parameters and emulate these calls as normal

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
- 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, planning flexible development sprint cycles, and regularly updating our supervisor

AI Shakspearean Discord Bots — StacsHack 2021 3rd Place Prize — `[repository link]` *March 2021*

- Used Python, TensorFlow, and Discord API to train recurrent neural networks on Shakespeare for text generation

LANGUAGES AND SKILLS

- **Programming Languages:** Java, Python, JavaScript, C, C++, Ruby, Haskell
- **Tools and Technologies:** Git, React, NodeJS, JSON, Linux, Spring Boot, SQL, MongoDB, Amazon S3

References can be provided upon request