

Chandler Low

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WORK EXPERIENCE

Solidatus, London

Aug 2021 - Present

Software Engineer

- Developed applications, in **Java** and **Typescript**, that ingest metadata and parse **SQL** from various data sources, such as **Collibra**, **Oracle** and **SQL Server**, into Solidatus' data visualisation format.
- Developed continuous improvements for Solidatus, a data management product that provides lineage and governance, using **React (Typescript)**, **.NET (C#)** and **MongoDB (NoSQL Database)**.
- Designed and developed an early-stage connector workflow, in **Typescript**, that helped secure a **six-figure** proof of concept deal with a major client.
- Refreshed legacy frontend components with **React (Typescript)** to overhaul user experience
- Implemented new API endpoints for exposing model query capabilities using **.NET (C#)**
- Deployed new alerting policies on production environments in **GCP** using **Terraform**, providing richer context to incidents and decreasing the number of false positive incidents by 60%.
- Created a **C#** utility that ingests usage statistics from SaaS instances and populates a dashboard in **Apache Superset** to aid SLT and board members in making decisions on the direction of the product (Solidatus).
- Devised and implemented a disaster recovery strategy for hosted sites from **GCP** to **AWS**, using **Terraform**, **Python** and **Docker**.

Thought Machine, London

Apr 2020 - Sep 2020

Backend Engineering Intern

- Upgraded existing **AWS EKS** clusters to utilise spot instances, resulting in cost savings of 30%.
- Programmed a service in **Go** to automate the upgrade of over 150 **Kubernetes** deployments.
- Created an alert system that analysed cluster service logs, which reduced incident response time by 20%.
- Configured **Prometheus** endpoints and **Grafana** dashboards to display metrics on cluster statuses.

EDUCATION

Imperial College London, London

Sep 2017 - Jul 2021

MEng Computing - Upper Second Class Honours

- Master's Project: Generating Synthetic Data for DNA Origami-based Information Storage Systems. Presented paper at the British International Conference on Databases 2021/22.

Hatch End High School, London

Sep 2010 - Jul 2017

- A-Levels: 3 A*s and 2 As in Mathematics, Chemistry, EPQ, Further Mathematics and Physics.

PROJECTS

Generating Synthetic Data for DNA Origami-based Information Storage Systems

Jul 2021

- Used **Python** and **Pytorch** to implement generative networks and computer vision to create synthetic DNA images as part of a broader research project on using DNA nanostructures for long-term data storage.

Micro:kit

Jan 2020

- Developed an interactive music web application for children, built with **React (Javascript)**, **C++** and **NodeJS**, as a free alternative to music education software offered in schools.

VOLUNTEERING & LEADERSHIP

President, Imperial College Association of British and Chinese Students

Sep 2018 - Jul 2019

- Led a committee of 6 to run a cultural society with over 300 members.
- Liaised with inter-university counterparts to organise events with up to 1000 participants.

SKILLS & INTERESTS

- **Languages and Frameworks:** Python, Java, C#, Go, TypeScript, JavaScript, Kotlin, React, .NET, Flutter.
- **Technologies:** Kubernetes, Docker, GCP, MongoDB, AWS, PyTorch.
- **Collaborative Skills:** Agile development, mentoring, stakeholder management.
- **Extracurricular:** Cooking Chinese, Italian and Japanese cuisines; basketball and squash player