

Walid Sabihi

+44 74444 62173 | me@wsabihi.com | walid-sabihi | Oxford, UK

EDUCATION

University of Oxford

Expected graduation July 2024

Bachelor's degree in Computer Science. Distinction (1st) in first year exams

Oxford, UK

- 3rd year project on Multiparty Session Types and securing distributed system protocols. Developed an inference system for MPSTs in Rust, and research accepted to a conference workshop at ETAPS 24

EXPERIENCE

Jane Street

July 2023 - September 2023

Software Intern

London, UK

- Extended a major post-trade data processor with new features to explore novel trading sectors
- Liaised with traders from multiple desks to extend a large distributed calculations system used for trading

Cambridge Consultants

September 2020 – September 2021, July 2022 – September 2022

Software Engineer (Full-time)

Cambridge, UK

- Developed IMU and LIDAR heatmaps data transport and processing pipelines for a driving simulator
- Engineered a graph-based cyber-security model/simulator for an engaging internal game, used as part of a cyber-security training course for over 30 Business Developers
- Architected the core (multi-threaded) processing/IO software for a near-real-time voice selection ML solution using Tensorflow on an edge AI device
- Extended an open-source SSL library to work with 2 PQC algorithms and achieved a PQC TLS connection using an embedded device as a client
- Created a fast sustainable material database web app for internal use
- Designed a desktop application for filtering video data to upload based on GPS/IMU logs; saved 60% of bandwidth (an average of 600GB out of 1TB of video data per day)

Hack Cambridge Atlas

Jan 2022

Team CryptolImpact

Remote

- Won the MLH-BlackRock challenge for estimating personal carbon footprint of user transactions by crawling the Bitcoin blockchain and Cambridge Bitcoin Electricity Consumption Index (CBECI)

Freelancing (various clients)

2017 – 2021

Software Engineer (Part-time)

Remote

- Engineered the MVP for an order management system with e-commerce integrations, and deployed a front-end shop for the OMS
- Implemented audit logs and worked on the front-end for a maritime cyber-defense startup
- Developed solutions for clients that involved data processing, shell scripting, desktop UI and full-stack development

Xapiri

November 2014 – April 2017

Web Developer (Part-time)

Remote

- Developed an interactive exhibition website and web shop including an interactive map of the Amazonian tribes, boosting engagement by 30%

PROJECTS

Fishing Trends

- Designed a data processing pipeline for 600GB of aggregated fishing data to compress into an efficient streamable encoding for a web app to visualise fishing efforts across the world

Qrify

- Built (end-to-end) a payment platform for quick payments using QR codes and Apple/Google Pay.

SKILLS

Languages : Python, Rust, C, TypeScript, OCaml, Haskell, Java, Scala, HTML/CSS, SQL, JavaScript, C#

Frameworks/Tools : Swing, ReactJS, VueJS, React Native, Electron, Git (GitHub, GitLab), Figma, Jira, Trello, SSH, Docker, GCloud (App Engine, Load Balancer), AWS (SQS, DynamoDB), Firebase, Nginx, NPM/Yarn

CI/Testing : PyTest, Jest, GitLab Runner, Black/MyPy (Python)

Extra-curriculars : Guitar, lacrosse, weightlifting, choir