

Alistair Crook

www.acrook.co.uk | acrook@acrook.co.uk
07474 109646 | 01223 666156 | Cambridge, England

EDUCATION

UNIVERSITY OF WARWICK

BSC IN COMPUTER SCIENCE

2014–2017 | Coventry, UK

Relevant modules include:

Software Engineering • Algorithms
Neural Networks • Machine Learning
Web Development • Network Security
Functional Programming • Mathematics
Computer Architecture • Databases
Dissertation: "Assessment of Imbalance
through Reinforcement Learning Techniques
in the Game of Go"

SKILLS

PROGRAMMING

Confident

JavaScript and TypeScript (inc. React)

Java • Python • CSS • Rust

Limited experience

Android Java • C++ • C#

LaTeX • SQL • PHP • Bash

INTERESTS

Violin • Game Design • Songwriting
Musical Theatre • Tabletop & Card Games
Cat Fostering • Video Games • Linguistics

SOCIETIES

UOW COMPUTING SOCIETY

Gaming President 2015–2016

WARWICK GAME DESIGN

Equal Opportunities Officer 2015–2016

HILLS ROAD ROBOTICS

Head of Programming 2013–2014

INTERNSHIPS

LINGUMI LTD. | PLAY WORDS

Summer 2016 | London, UK

Mobile games for teaching 2–4 year old
children English as a second language.

KYNESIM LTD. | MULTIPLE PROJECTS

Summer 2013 | Cambridge, UK

Summer 2014 | Cambridge, UK

Electronic and software design consultants.

EXPERIENCE

THOUGHTRIVER | INTERNAL MICROSERVICES AND INTEGRATION

Jan 2023 - March 2023 | Cambridge, UK

AI Contract Assessment

- Architected and implemented integrations between manual ML model Training processes and web backend for end users.
- Developed investigation and solution architecture skills, particularly in above tasks and being co-opted for various production incidents in unfamiliar codebases.
- Entirely worked in Python, using FastAPI and OpenAPI.

SPLEND UK | AWS LAMBDA SERVICES AND INTERNAL TOOLS

June 2022 - December 2022 | London, UK (Remote)

Electric Vehicle PCO Car Hire

- Created AWS Python Lambda based system for synthesising failed payment information from an existing but ad-hoc data lake and assisted in refining specification for future work
- Worked with operations team on migrating global backend from mixed vendor based system to wholly Microsoft Azure system, including development of a platform-agnostic notifications service making use of AWS architecture to assist transition from Slack to MS Teams
- Worked primarily in Python, with some React/TypeScript.

BIGPAY | SME PAYROLL AND PAYOUTS

March 2021 - June 2022 | Cambridge, UK (Remote)

Singaporean and Malaysian Neobank

- Worked in parallel on TypeScript/React frontend and Rust backend for payroll and rent payment interface for SME owners.
- Completed, shipped, and assisted in production operation of Rust-based API for performing batched payouts and python-based scripts for assisting non-technical users interfacing with this API.
- Worked primarily in Rust for backend and TypeScript for frontend.
- Worked in a small team (initially) and later leading own team using a Kanban-based Jira workflow and Git-based source control.

GRAKN LABS (NOW VATICLE) | GRAKN 2.0

September 2020 - February 2021 | London, UK

Open Source Knowledge Graph based database

- Created the nodejs-based client for interfacing with the Grakn 2.0 core server, having been re-architected since the prior version.
- Largely developed in Javascript and Java.
- Scrum and later kanban workflow, using Git-based source control.

GEOSPOCK LTD. | ILLUMIN8

September 2017 - August 2020 | Cambridge, UK

Software for visualising and manipulating extremely large datasets

- Developed visualisation and dashboard portion of product operating on an AWS based platform, primarily using React.js with Redux and Node.js-based GraphQL API.
- Worked as part of a small team in an agile environment, making use of Git-based source control and Jira sprints for task management.