Johan Yim
Graduate Software Developer

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Experience

2024/03
Present **Volunteer Data Assistant** — Bath Royal Literary and Science Institution
- Actively investigated existing methods of data collection to identify potential inconsistencies
- Collaborated with team to implement corrective measures, ensuring data integrity and reliability
- Scanned, cleaned and processed 600+ lines of data using core utilities such as `awk` and `sed`
- Proposed a new schema for sales data collection, preparing for future analysis of customer data

2019/09
2019/10 **Temporary Student Ambassador** — University of Bath
- Assisted the University of Bath with their outreach attempts to potential Computer Science students
- Underwent ambassador training to develop public speaking and crowd management skills
- Managed student orientation and their transition from secondary to higher education

Programming

Languages:	Rust, Python, Bash, HTML/CSS, JavaScript
Tools/Libraries:	**Rust** `axum, itertools, clap, crossterm`
	Python `NumPy, Pandas`
	Frontend `HTMX, Vue.js, Sass, Tailwind`
	Other `AWS, Git, Linux`

Projects

(2024) AI Translation Web Application 🔗 /googoltranslate.com
 /johanyim/googol_translate

Description:
This is a web application which translates words and phrases to various written tones and voices to suit different contexts and audiences. It utilizes a cloud-based serverless compute service to handle incoming translation requests in a scalable and cheap manner.

Outcomes:
- Utilized my domain knowledge gained from education to adjust the hyperparameters of a general-purpose generation agent to handle the specific task of translation
- Practised implementing web development patterns such as exposing endpoints, configuring CORS and managing application state and logic
- Acquired a critical understanding of differences in cloud-based compute services and their use cases
- Leveraged Rust's type system to produce a fault-tolerant system and self-recovering errors
- Established GitHub actions to automate building and testing processes for continuous integration

Tools:
`AWS (Lambda, API Gateway, Route53, S3), Rust, OpenAI, HTMX, GitHub Actions`

(2023) Terminal-based Colour Palette Interface /johanyim/fingerpaint

Description:
This project implements a lightweight key-mapping application that assigns colours and colour formats to distinct keystroke combinations, automating the process of colour selection.

Outcomes:
- Practised type safety and awareness of memory layout by implementing a comprehensive, algebraic type system from functional programming design patterns
- Practised error handling by defining control mechanisms to handle potential faults

Tools:
`Rust (clap, crossterm, thiserror), X11/Wayland, Hyperfine (Benchmarking)`

Education

2019
2023 **Computer Science MComp (Hons)**
Master of Computing, University of Bath — Degree Class awarded: 2:1
Functional Programming (82%) · Machine Learning (77%) · Statistics for Data Science (73%) · Cryptography (78%) · Data Structures and Algorithms (82%) · Computer Systems Architecture (82%) ·

2017
2019 **International Baccalaureate (IB)** — 39 points overall
HL Maths (7) – HL Physics (7) – HL Computing (5)