

# ZACHARY UPSTONE

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## SKILLS

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**Key languages:** Python, C++, C, C#

**Frontend:** Vue, Angular, React, TypeScript

**Backend:** REST API's, PHP, Express, Fastify

**Native:** Swift, SwiftUI, Objective-C, Java, Kotlin

**Testing:** Pest, Gherkin, Selenium

**Tools:** Docker, Git, Jira, Bitbucket, CI/CD

## EXPERIENCE

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### Pugpig

London, UK

Product Developer

Oct 2024 - Present

- Modernised front-end code with Vue, eliminating legacy tech debt between native and web, fixing bugs, improving maintainability, and collaborating with designers to refine UI/UX.
- Enhanced native applications by integrating new SDKs and leading feature development from concept to delivery, including user-facing improvements such as app Toasts to improve feature discovery.
- Managed theming, localisation, and content for 100+ newspapers and magazines to reduce the need for custom code, while maintaining an automated test suite to ensure consistent, high-quality releases.

### Bsquare

Trowbridge, UK

Student Software Developer

Jul 2022 - Jun 2023

- Developed new product features using version control (Git), including an OS updates page and interactive product tour, while debugging and supporting QA sprints in an Agile environment.
- Contributed to the QA team by writing automated unit, API, and UI tests with Gherkin and Selenium, reducing manual testing effort while automating test upload via Zephyr with Python.
- Performed manual testing and coordinated QA sprint tasks, collaborating across teams to meet release deadlines and maintain quality standards.

## EDUCATION

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### University of Bath

2020 - 2024

**Computer Science BSc** - First Class Honours - Overall grade – 74.51%

- Units including: Final year project (Dissertation), Logic and semantics of programming languages, Entrepreneurship, Reinforcement learning, Advanced graphics processing.
- For my final year dissertation, I explored whether Reinforcement learning Human Feed improved established image synthesis methods utilising Python, Pytorch and Numpy.

### Chesham Grammar School

2013 - 2020

**A level:** Further Mathematics (A), Mathematics (A\*), Computer Science (A), Physics (A).

**GCSEs:** 4 grade 9's, 2 grade 8's, 3 grade 6's, 1 grade 5, 1 grade A

## PROJECTS

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- [Short Storey](#) - Full-stack web application for sharing short stories, built with Vue and Fastify.
- [Spotify Roulette](#) - Spotify API and React based multi player web game utilising websockets.
- [Chrome Context Control](#) - Built a Chrome extension for customising the browser context menu.
- [Snowstorm](#) - Explored performance trade-offs via snow animations (Asm, C, D, C++, Rust, Ada).
- [Traffic Simulator](#) - Designed a graphical traffic simulation in C, with adjustable flow rates.

## ACHIEVEMENTS

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- AWS Certified Cloud Practitioner
- Gold DofE
- Volunteered at WorkAid for 18 months

## REFERENCES

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Available upon request