

Harry Tiger Miller

Computing Graduate

Harry Tiger Miller

United Kingdom

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Portfolio: <https://harrytmiller.github.io/portfolio2>

GitHub: <https://github.com/harrytmiller>

LinkedIn: <https://www.linkedin.com/in/harry-miller-848171379/>

Professional Profile

I have independently designed, developed, and deployed 6 production business applications for clients, handling everything from architecture and payments to GDPR compliance. These applications cover systems such as e-commerce, live booking and informational sites. You can find a more comprehensive view of my profile and projects at portfolio, complete with pictures and live applications.

I recently graduated with First-Class Honours in Computing from the University of Portsmouth and have a strong passion for different aspects of software engineering. I understand key usability, security, networks, cloud deployment and database principles. I am eager to develop my skills, collaborate with experienced professionals, solve technical problems, and contribute to creating innovative software. I am currently studying MSc Applied AI at the University of Warwick.

Client Projects

Stroud Complementary Therapies - *Freelance, solo build*

Full-stack booking system for a massage/reflexology practice: live availability calendar, Stripe deposit payments, race-safe slot-locking via database exclusion constraints, JWT auth, automated GDPR-compliant data retention. The owner manages scheduling, pricing and content entirely through a custom admin panel.

Red E-commerce Site - *Freelance, solo build*

Configurable shop for an independent artist with three switchable modes (portfolio-only / external shop link / full in-site ecommerce). Stripe checkout with stock reserved pre-payment to prevent overselling, UK address validation, granular consent capture per form, automated data retention jobs.

Technical Skillset

-Programming languages: Python, Java, JavaScript, TypeScript, Dart, HTML, CSS and SQL

-Frameworks and libraries: Spring Boot, React, Next.js, Node.js, Apollo Client, Flutter, Three.js, and Tailwind CSS

-Databases: Production business databases (stock, sales, bookings and profiles), SQLite, PostgreSQL, Neon (serverless Postgres), and Firebase, with GDPR-compliant data handling, database-level concurrency control, and end-to-end development and setup

-Core knowledge: GDPR compliance, usability, security, networks, software engineering, microservices architecture, webhook-driven architecture, testing methodologies, databases, artificial intelligence, cloud computing, cryptography, and payment processing

-Software: VS Code, IntelliJ, Pyzo, Cisco Packet Tracer, Docker, Github, CI/CD tools, Lucidchart, Vercel, Netlify, Cloudflare, Stripe, PowerShell, Stable Diffusion, TripoSR, and more

-Developed: 4 production webapps for clients, other full stack web applications, a mobile application, genetic algorithm models, neural network models, AI processing pipelines, decision-making systems and Unit/widget test sets

-Experience integrating and working with APIs: Firebase, Stripe, Clerk , Resend, Brevo, Cloudinary, Edamam API, Hugging Face, Stability AI, RESTful API design, GraphQL, webhook integration, and local AI model deployment

-Experience with CI/CD pipelines: GitHub Actions automated workflows and version control, Docker containerisation and automated build processes, Vercel and Netlify deployment and workflow hosting, Cloudflare deployment and dns

Education

University of Portsmouth 2022-2025:

BSc Computing, First Class Honours

Year 2 Avg: 74.4 Year 3 Avg: 70 GPA: 4.00

Modules included: Software Engineering Theory and Practice, 3D Computer Graphics and Animation, Database Principles, Artificial Intelligence, Advanced Networks, Security and Cryptography, Usability Testing, and more

Cheam High School 2020-2022:

2 A-levels: Accountancy B and Mathematics C

1 BTEC: Information Technology, Distinction*

Cheam High School 2015-2020:

9 GCSEs: English literature, English language, Mathematics, Physics, Chemistry, Biology, Computer Science, Geography and French

1 BTEC: Creative Media

Certificates

AZ104: Azure Administrator Associate certification

AZ900: Azure Fundamentals certification

CLF-CO2: AWS cloud practitioner certification

Employment History

Bill's Restaurant- November 2020 to September 2022

Worked in a fast-paced environment, assisting back-of-house operations with kitchen support duties. Provided efficient and reliable assistance to ensure smooth workflow.

Spares for Homes - March to July 2020

Managed order processing tasks, including printing, packing, and shipment preparation, ensuring accuracy and efficiency. Assisted with inventory control by checking in deliveries.

Tree Felling - July to September 2020

Performed log chopping and branch shredding tasks, ensuring efficient processing materials. Maintained a safe and organised work environment while handling equipment.

Hobbies and Interests

I am committed to continuous learning, with post university studies focussed on artificial intelligence, cloud concepts and software engineering practices. I have visible tattoos, including on my face and neck, and maintain a professional, approachable presence in all work environments