Sam Taylor

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TECHNICAL SKILLS

Languages: Java, Python, Go, TypeScript, JavaScript, C
Frameworks: Django, Spring Boot, JUnit, ReactJS, NestJS, Jest
Developer Tools: Git, Postman, Docker, Jira, AWS

WORK EXPERIENCE

Software Engineering Intern   January 2025 - June 2025
Stripe, EMEA Wallets | Java, gRPC, Ruby, Git, Jira   *Dublin, Ireland*

- Developed new features for a payment method launched in alpha, such as custom merchant branding and separate authorisation and capture
- Enhanced merchant experience and reduced friction with separate authorisation and capture for a separate payment method

Software Engineer   September 2024 - January 2025
Curie | Python, GraphQL, AWS, NextJS, Git, Jira   *Dublin, Ireland*

- Reduced critical path latency through asynchronous workflows
- Improved responsiveness and synchronisation on web and mobile applications through real-time updates

Software Engineering Intern   June 2024 - August 2024
Stripe, Test Data Infrastructure | Java, gRPC, ReactJS, Git, Jira *Dublin, Ireland*

- Connected an internal test data generation service to Stripe's public API, reducing test data maintenance
- Presented intern project to company-wide "Fireside" event

Software Engineer   September 2023 - May 2024
Software Engineering Intern   June 2023 - August 2023
Xelda | Python, Django, Typescript, ReactJS, AWS CDK, Git, Jira   *Dublin, Ireland*

- Migrated OCR to a new asynchronous model and provider, cutting costs and latency by 50%
- Increased user control by introducing granular permission mechanisms
- Improved deployment and testing by designing and managing a multi-stage CI/CD pipeline

Sales Assistant   June 2021 - May 2024
Joe Daly Cycles   *Dublin, Ireland*

EDUCATION

Trinity College Dublin   September 2025 - Present
Master's in Computer Science   *Dublin, Ireland*

Trinity College Dublin   September 2021 - May 2025
B.A. (Mod) in Computer Science   *Dublin, Ireland*

Grade: I.I

Key Modules

- Discrete Mathematics, Formal Verification, Algorithms and Data Structures, Software Engineering, Functional Programming, Computer Networks

Wesley College Dublin   September 2015 - June 2021
Secondary Education   *Dublin, Ireland*

PROJECTS

routeit Web Framework | *Go, Git*   June 2025 - September 2025

- Researched, designed and published a server-side web framework with full HTTP/1.1 support, excluding CONNECT requests
- Implemented dynamic routing, middleware chaining, JSON handling, error mapping, and integrated testing

Competitor Matching System | *Python, Django, FAISS, YOLO, ResNet, Git*   January 2024 - April 2024

- Led a team of 11 college students to construct a competitor matching machine learning system alongside our client Integral Ad Science, placing second in our year
- Devised and coordinated the construction of a fully scalable image detection and recognition service, including pipelines for supporting additional brands

Real-Time Encrypted Messaging | *Django, Redis, ReactJS, Cryptography, Websockets*   April 2024

- Developed a full-stack web application that performed AES-256 and RSA-4096 encryption alongside X.509 certificate verification and RSA-4096 signing to encrypt social media chats