

# Sam Taylor

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## TECHNICAL SKILLS

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

## WORK EXPERIENCE

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**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

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

**Area of Research:** Distributed Systems and Networking

**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

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[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