

Zach Rodgers

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PROFILE

AI and Data Science graduate (First Class Honours, 2026) focused on building and shipping machine learning systems. Designed and benchmarked seven deep learning architectures for EEG time-series classification, build backend services for a Lloyds-partnered fintech, and built a production RAG prototype at QikServe. Targeting ML Engineer roles in Edinburgh fintech.

PROJECTS

Deep Learning for EEG-Based Digit Classification [GitHub](#)

Python, TensorFlow

- Designed and implemented a controlled comparison of seven temporal deep learning architectures (EEGNet, BiLSTM, 1D CNN, TCN, TCAN), including two original hybrids (EEG-TCN, EEG-TCAN), on the MindBigData corpus.
- Evaluated across a 10-class recognition task and a binary detection task using two input representations under identical preprocessing, establishing that performance is signal-limited rather than architecture-limited. Honours project, supervised by Dr Yan Zhang.

Place My Mise [Live](#)

React 18, TypeScript, SQLite

- Full-stack web application built end-to-end, modelling kitchen mise en place workflows as interactive graphs - from data modelling through React frontend to deployment.

Human Activity Recognition (1D CNN)

Python, TensorFlow

- 1D CNN on the UCI HAR dataset with TensorBoard training visualisation and a full LaTeX technical report covering architecture decisions, hyperparameter tuning, and evaluation methodology.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, SQL

ML / Data: TensorFlow, NumPy, Pandas, Scikit-learn, LangChain, deep learning, LLMs, RAG pipelines

Backend & Infra: Spring Boot, Spring MVC, Docker, AWS (Lambda, Cognito, serverless), GCP, MySQL

Frontend: React 18, Vite, Next.js, Tailwind CSS

Other: Git, Hibernate ORM, data pipelines, technical documentation

EXPERIENCE

Director - PAYDIT, Edinburgh

Jul 2025 – Present

- Co-direct a fintech startup enabling small businesses and charities to accept card payments via QR code with no card-machine fees, operating through a Lloyds Bank partnership that routes new business account holders to the platform.
- Build backend services in Java and Spring Boot, including account hierarchy design and multi-account access features.

Product Intern, AI & Data Analytics - QikServe, Edinburgh

Jun – Sep 2023

- Built a RAG chatbot proof-of-concept using LangChain, integrating an LLM with internal documentation to resolve natural-language queries over business knowledge bases.
- Led an AI integration roadmap across the product suite; produced a 26,000-word strategy wiki and roadmaps for four prioritised initiatives, delivered ahead of schedule and presented company-wide. QikServe was subsequently acquired by Access Group.

Demi Chef de Partie - Sheraton Grand Hotel & Spa, Edinburgh

Jul 2025 – Present

- Manage the larder section in a five-star hotel kitchen; lead and develop junior staff in a high-volume service environment.

EDUCATION

BSc (Hons) Artificial Intelligence and Data Science - Glasgow Caledonian University

2022 – 2026

First Class Honours.

Honours project: deep learning for EEG-based time-series classification. Relevant areas: deep learning, machine learning, cloud platform development (AWS), signal processing.