

Richard Blazek

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Skills

Programming: C++, Python, Rust, Go, SQL

Web Development: JavaScript, CSS, HTML, WebAssembly

Tools and Systems: Linux, Bash, Git, Docker

Machine Learning: PyTorch, NumPy, Pandas

Platforms: Amazon Web Services (AWS), Google Colab, Kaggle

Education

Trinity College Dublin, 2022–2027

- Integrated Master in Computer Science (MCS)
 - Overall grade: I (First class Honours)
 - Full-year exchange in **Hong Kong** (HKUST) in 2024/25
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Work Experience

Machine Learning Intern (May 2024–Aug 2024) at Heidelberg University, Germany

- Improved the training process for a mammography images classifier
- Reduced training time by **83 %**
- Employed **data augmentation** and **SMOTE** to increase precision for **imbalanced data sets**
- Tech stack: **Python, PyTorch, SciPy, NumPy, Pandas**

Full-Stack Developer (Sep 2022–Aug 2023) at MicroDoc.io, Ireland

- Working on a **start-up** using AI to automate paperwork for doctors
 - Front-end stack: **JavaScript, HTML** and **CSS (Tailwind CSS)**
 - Back-end stack: **Python, SQL (PostgreSQL), Docker**
 - Migrated our service from **Google Cloud** to **Amazon Web Services**
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Projects

Programming language compiler

- Designed a statically-typed structured programming language
 - Built a compiler in Rust, compiling my language into WebAssembly
 - Prototype available online: <https://richardblazek.com/zyba-wasm-compiler.html>
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Activities

Patch 2024

- Start-up accelerator programme in Dublin
- **Managed** a company of three people
- Building an **employment platform** for **people with disabilities**
- **Stakeholder interviews** with HR managers at Stripe, and disability NGOs
- Back-end development using **Go** and **SQL (PostgreSQL)**