Ziad Malik

Electrical Engineering & Information Technology · ETH Zurich

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PROFILE

Electrical engineering student at ETH Zurich with four years of industry experience shipping production software, from AI products to CI/CD platforms. Currently doing research on compilers and programming languages, and running projectmachine, building custom software for established businesses.

EDUCATION

BSc Electrical Engineering & Information Technology — Sep 2025 – present
ETH Zurich, D-ITET — Zurich, CH

RESEARCH EXPERIENCE

Research Assistant — Nov 2026 – present
Advanced Software Technologies Lab, ETH Zurich — Zurich, CH

- Developing Belvue, a self-hosting visual programming language.

Research Assistant — Mar 2026 – May 2026
DYNAMO Group, ETH Zurich · contract — Zurich, CH

- Contributed to Dynamatic, an open-source high-level synthesis compiler that turns C into dataflow circuits. Targeted handshake logic, which can account for over half of a circuit's resources.
- Formulated latency and occupancy balancing as linear programs that insert delays so data reaches synchronisation points on time. This removed all spurious stalls and reached optimal throughput on several benchmarks, the precondition for removing handshake logic in regular regions.

PROFESSIONAL EXPERIENCE

Founder — Sep 2025 – present
projectmachine · alongside studies — Zurich, CH

- Build custom AI software for businesses: internal tools, knowledge bases and agentic workflows.
- Own each engagement end to end: scoping, architecture, implementation and deployment.

Lead Software Developer — Apr 2025 – May 2026
Codebender AI — Remote

- Led delivery of several AI SaaS products, owning architecture, client communication and releases.
- Built an SOP generator for onboarding virtual assistants from meeting transcripts; **180 active users.**
- Built a Clio Draft extension for bulk document completion at a law firm, saving **200 hours per month.**

CI/CD & Automation Consultant — Jan 2024 – Apr 2025
PostFinance · external, via ALTEN — Bern, CH

- Member of enabling team that moved delivery teams from quarterly to commit-to-production deployment.
- Wrote and maintained GitLab CI templates for stacks ranging from legacy Java services to Go and TypeScript.
- Advised teams on pipeline design suited to their constraints and release risk.

Software Developer, *w hoch 2* · part-time — Jul 2023 – Jan 2024

Software Developer, *SIDESTREAM* · freelance — Jul 2023 – Sep 2023

Software Developer, *Dotphoton* — Apr 2022 – Jul 2023

SKILLS

Programming	C/C++, Python, TypeScript, Go, Java
Web & AI	Nuxt / Vue, Node.js, Supabase, PostgreSQL, RAG pipelines, Vercel AI SDK
Infrastructure	GitLab CI, Kubernetes, Docker, ArgoCD, Hetzner, DigitalOcean
Languages	English (fluent), German (native), Arabic (native)