Diego Fernandez

Full Stack Software Engineer

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Experience

NORDHOLM ROBOTICS | Senior Software Engineer

May 2021 -- Current | Malmö, Sweden

- Led the rewrite of the fleet-scheduling service from a monolith into three independently deployable services, cutting deploy time from 40 minutes to under 5.
- Designed the internal API used by warehouse-floor tablets to report robot status, now handling 50,000+ requests per minute at peak.
- Mentored two junior engineers through their first on-call rotations and code review practices.

HOLLOWBROOK DATA | Software Developer

July 2016 -- March 2019 | Toronto, Canada

- Built the ETL pipeline that consolidated five legacy reporting databases into a single warehouse, reducing month-end reporting time from three days to four hours.
- Implemented automated regression tests for the billing subsystem, catching 12 production-bound defects in the first quarter after rollout.
- Collaborated with the data science team to expose model outputs through a new internal REST API.

INSTRUCTURE LABS | Software Developer

July 2012 -- March 2016 | Austin, USA

- Maintained the course-scheduling module used by over 200 partner institutions.
- Rewrote the notification service to use a message queue, cutting delivery latency by 70%.

Projects

CHESS ENGINE | C++

2018

- Built a UCI-compatible chess engine using alpha-beta pruning with iterative deepening, reaching roughly 1900 Elo in local testing.
- Wrote a perft-based test suite to validate move generation against known reference positions.

SPEECH-ENABLED SCHEDULING BOT | C#, Microsoft Bot Framework

2018

- Built a voice-driven meeting scheduler integrated with a shared calendar API.
- Deployed as a Teams app used by roughly 150 people across two departments.

Skills

PROGRAMMING

Proficient:
C# • C • JavaScript • Python
SQL • CSS • HTML •

Experienced:
Go • LaTeX • C++

Familiar:
Java • Shell • Rust

LIBRARIES/FRAMEWORKS

React • Node.js • Django • gRPC

TOOLS/PLATFORMS

Git • Terraform • Kafka • Heroku
AWS • Docker

Education

UNIVERSITY OF TORONTO

Master's in Computer Science

Jan 2021 -- Present | Toronto, Canada

Department of Computer Science

Cum. GPA: 3.85 / 4.0

UNIVERSITY OF WATERLOO

Bachelor's in Computer Science and Engineering

May 2016 | Waterloo, Canada

Department of Computer Science

Cum. GPA: 3.7 / 4.0

References

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