Ege Kaya

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SUMMARY

Computer Engineering student with strong experience in full-stack development, databases, and AI research. Co-author of university-level research on AI in engineering education; built production-grade systems, developer tools, and automation.

EXPERIENCE

Front End Developer Intern

Parma Calcio 1913   **September 2025 – Present**

- Built and deployed 20+ full-stack production feature systems (React, TypeScript), serving 50+ staff and reducing operational workflows by ~50%.
- Integrated AWS S3 + CDN, real-time data, video and document processing; delivered 95+ Lighthouse performance scores.

PROJECT

GitSimulator – GitKraken Game Jam 2025, 3rd Place Winner

GitKraken
- Built production-grade Git simulation engine (rebase, merge, reset, cherry-pick) with visual commit graphs and conflict prediction.
- Won 3rd Place at GitKraken Game Jam 2025; 135+ tests, CI/CD, plugin architecture, interactive TUI; published on PyPI.

CoreMetric

- Privacy-first macOS system monitor app using ML autoencoder on Apple Neural Engine to detect anomalies with <1% CPU overhead using Swift and SwiftUI.

Research Paper – Evaluating the Pedagogical and Cognitive Impacts of Large Language Models on Engineering Education

Politecnico di Torino
- Co-authored research on pedagogical and cognitive impacts of LLMs in engineering education; co-delivered a university lecture on Computer Architecture.

EDUCATION

Bachelor's degree in Computer Engineering

Politecnico di Torino · 2026 · 27/30
- Full Merit Scholarship, Priority List

INVOLVEMENT

Full-Stack Developer & Embedded Systems Developer

Politecnico di Torino · PoliTO Rocket Team · February 2025 – Present
- Built internal web tools for 150+ team members; automation bots cut admin overhead by 95%, with auth and real-time sync handling 1,000+ daily operations.
- Developed STM32 flight firmware in C/C++ under real-time and memory constraints; built sensor drivers, timers, watchdogs, and performed SWD debugging for fault-tolerant operation.

Database Developer

Politecnico di Torino · Team DigiTwin · February 2025 – July 2025
- Designed a high-performance PostgreSQL database for structural monitoring, handling 50,000+ sensor readings/day with real-time analysis.
- Built a cross-platform C++ data pipeline (CMake, Linux/embedded); optimized queries for ~40% faster responses and predictive maintenance.

Staff

Italian Tech Week · December 2025 – December 2025
- Supported logistics and international speakers at Italy's largest tech conference; engaged with founders, investors, and tech leaders.

SKILLS

Python, Java, JavaScript/TypeScript, C/C++, Swift, SQL, HTML/CSS, React, Next.js, Node.js, PostgreSQL, AWS, Docker, MATLAB, PyTorch, STM32, Git