

Eroll Qorrolli

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science, Philadelphia, PA
Candidate for Bachelor of Science in Engineering - Computer Science

May 2028

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C#, JavaScript/TypeScript, OCaml, Swift

Frameworks & Tools: FastAPI, React, Next.js, PostgreSQL, Docker, Git, Linux. **Interests:** AI/ML, backend systems, robotics

PROJECTS

Multi-Agent Code Generator | Python, FastAPI, Next.js, LLM API | github.com/erollqorrolli/multi-agent-codegen

June 2026

Built 5-agent orchestration system (Architect, Implementation, Test, Security, Optimization) that converts GitHub issues into production pull requests; agents coordinate sequentially with parallel execution, passing typed schemas between stages

Implemented sandbox execution with real test feedback: generated tests run in isolated Docker/virtualenv and fail/pass results feed back to Implementation agent for automatic revision and retry—proven with full end-to-end pipeline

Engineered adaptive learning loop: PR feedback (accept/reject) distills into reusable rules stored in database; these lessons feed into agent instructions for future generations, continuously improving output quality

Tech: Python 3.12 async/FastAPI, PostgreSQL + SQLAlchemy, Gemini API (model-agnostic for easy swaps), GitHub App webhooks, Next.js dashboard showing real-time agent reasoning and sandbox test results

Web Developer - Freelance |

July 2026

Built and maintain vanessachan.engineering.upenn.edu, a portfolio site for a Penn Engineering Vice Dean — Next.js, TypeScript, and Tailwind CSS with Framer Motion scroll animations; statically exported and deployed on Penn servers, with SEO via schema.org structured data, sitemap, and Google Search Console.

Built and maintain mineravatech.com, a marketing site for a Penn materials-science startup — hand-coded HTML, CSS, and JavaScript with GSAP (ScrollTrigger) and Lenis smooth scroll. SEO via sitemap and Google Search Console.

RELEVANT EXPERIENCE

ModLab - GRASP Lab, Philadelphia, United States — **Research Assistant**

Summer 2026

Developing and testing vision-based control, motion, and autonomous reconfiguration systems for the SMORES-EP modular robotics research project in Dr. Mark Yim's ModLab.

Penn Engineering, Philadelphia, United States — **Technical Program Management Intern**

Summer 2026

***Consult with industry partners** to scope out collaborative corporate sponsorships, grant opportunities, and technical project proposals.*

***Manage industry-sponsored Senior Design initiatives**, aligning corporate technical needs with university curriculum and faculty expertise.*

***Collaborate with the Penn Center for Innovation** and academic faculty to negotiate, finalize, and execute project agreements.*

Dekoi, Shtime, Kosovo - **Co-founder / 3D Designer**

May 2021 – April 2023

Co-founded and scaled a consumer product startup, managing the technical design pipeline from concept to final production.

Leveraged PR and targeted marketing initiatives to earn national media coverage, expanding regional market reach and brand awareness.

Acquired a recurring customer base and accelerated revenue growth by implementing high-impact digital marketing strategies.

Kosova Makers League Foundation, Prishtine, Kosovo - **Intern**

March – July 2023

***Supported the launch** of the €64,175 "One Robot Per Child" campaign aimed at expanding digital literacy across public schools.*

***Formulated the core structure and guidelines for a nationwide programming competition**, ensuring scalable deployment across multiple school districts.*

***Planned and facilitated "Scratch Week" events**, guiding students through a comprehensive, week-long program of introductory coding activities.*