

Eduard Tanase

520-909-5378 | eduard.tanase1@gmail.com | [linkedin.com/in/eduard-tanase](https://www.linkedin.com/in/eduard-tanase) | github.com/meme8383

EDUCATION

Purdue University

West Lafayette, IN

B.S. in Computer Engineering, GPA: 4.0/4.0

Aug. 2022 – May 2026

- Affiliations: John Martinson Honors College, Purdue IEEE Student Branch, Romanians of Purdue (Co-Founder)
- Study Abroad: National University of Singapore (Spring 2025)

EXPERIENCE

Software Engineer

June 2024 – Present

ECE Labs LLC

West Lafayette, IN

- Led rewrite of Verilog educational platform (used by 300+ students) from JQuery/HTML to Vue.js + FastAPI
- Introduced CI/CD pipeline, automated tests, and full-stack Sentry monitoring for maintainable deployments
- Cut API latency by 97% through backend parallelization and reduced production errors by 98%
- Maintained Kubernetes infrastructure and built Grafana dashboards that helped proactively resolve server outages

Undergraduate Researcher

Jan 2024 – Dec 2024

Nano Neurotechnology Lab @ Purdue

West Lafayette, IN

- Built and evaluated ML models to decode motor behavior from mouse neural data with PyTorch and Scikit-learn
- Presented work at Purdue BME Research Symposium, co-authored presentations at SfN 2024 and Cosyne 2025

Undergraduate Researcher

Jan 2024 – Dec 2024

System on Chip Extension Technologies (SoCET) @ Purdue

West Lafayette, IN

- Ported PicoLibc to a custom RISC-V microcontroller, with I/O via UART for simulation and FPGA execution
- Built automated FPGA flashing scripts for Intel Quartus using TCL, streamlining testing and deployment
- Designed a common-source amplifier and simulated NMOS transistors using Cadence Virtuoso

Vice President, Technical Committees

May 2024 – Dec 2024

Purdue IEEE Student Branch

West Lafayette, IN

- Managed 7 technical committees, overseeing over 800 active members as Purdue's largest technical organization
- Led ML model development for NeurotechX competition in Systems, Man, and Cybernetics Society

Chief Technology Officer (CTO)

July 2023 – Present

Deaf-i

Phoenix, AZ

- Built a website and blog for Deaf-i, a nonprofit for cochlear implant recipients, with Next.js, Prismic, & Stripe
- Implemented SEO & best practices, reaching 300+ monthly views, 700+ search impressions, \$1000+ in donations

PROJECTS

Rust Sublanguage Interpreter | *NUS CS4215 Programming Language Implementation*

Mar 2025 – Apr 2025

- Built an interpreter for a statically typed Rust sublanguage with compile-time type checking and borrow checking
- Developed compiler, memory model, and virtual machine in JavaScript, with ANTLR for grammar parsing

Graphisophy | *Next.js, React, Postgres, Clerk, Drizzle ORM, Sentry, i18n*

Mar 2025 – Present

- Designed and launched a modern, performant fountain pen and ink wiki with a public homepage and waitlist
- Built dynamic brand and product pages with Wikipedia API, support for variants, and internationalization
- Implemented production-grade tooling: Sentry for monitoring, Arcjet & Clerk for auth/security, Codecov + Checkly for testing/coverage, Better Stack for observability, Crowdin for translations, and Vercel for deployments

Electric Skateboard RGB Controller | *ESP32, KiCAD, Buck Converters, WLED*

Jan 2024 – Dec 2024

- Designed PCB in KiCad to drive and control ARGB LEDs using ESP32 and internal 36V battery
- Assembled PCB using reflow oven, integrated WLED for smartphone control, & published schematic on GitHub

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Rust, SystemVerilog, MATLAB, Bash

Frameworks: React, Next.js, Node.js, Express.js, FastAPI, Vue.js, jQuery

Developer Tools: Git, Docker, Linux/Unix, Kubernetes, ArgoCD, Grafana, Jupyter, Virtuoso, Quartus, Verilator

Libraries: pandas, NumPy, Matplotlib, PyTorch, Scikit-learn, SciPy