

Peter Johnstone

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github.com/Peter-Johnstone | Portfolio

Education

B.E., Computer Science & Engineering, Bucknell University, PA *Aug 2022 – May 2026*

Honors: Dean's List

Study Abroad: Nanzan University (Spring 2025)

Experience

Lead ICPC Rep & Coding Seminar Organizer at Bucknell University, PA *Sep 2025 – Present*

- Faculty-appointed lead for Bucknell's ICPC team; run weekly competitive coding seminars (C++/Python).

Co-Founder & CTO at Eigofy, Inc., PA *Aug – Dec 2024*

- Manifest V3 Chrome extension for instant EN → JA lookups with spaced-repetition vocab.
- Frontend in JavaScript/HTML/CSS; Webpack bundling and CI for automated builds.
- Backend on GCP/Firebase (Auth, Firestore), Stripe, and AI APIs; REST and event analytics.
- Acquired 100+ early adopters in the first month; secured grant funding and presented at TechCrunch Disrupt SF. [[Landing Page](#)] [[Extension](#)]

Software Engineer Intern at Visual Alpha, Tokyo *Jun – Aug 2024*

- Built a full-stack internal data-update tool (Python/Flet, SQL, company REST); automated recurring updates to cut manual work.
- Contributed 45 PRs with reviews/docs; shipped to sprint deadlines.

Software Tester Intern at Habitto, Tokyo *Jun – Aug 2023*

- Worked cross-functionally with PM, design, and Android engineers to improve reliability across releases by building and maintaining automated login/signup tests (Appium, Java) .

Selected Projects

Magnus Carblunder (Rust Chess Engine) — Open-source *Jul – Sep 2025*

- Highly optimized Rust chess engine using bitboards, alpha-beta + iterative deepening, transposition table (Zobrist), move ordering, quiescence.
- Profiled with Flamegraph and perft-validated; strong self-play rating (~2800). [[GitHub](#)]

OCR Neural Network in Pure Python — Open-source *May – Jul 2025*

- Built character recognizer *from scratch* (no NumPy): matrix ops, ReLU/softmax, SGD; end-to-end eval + interactive quiz. [[GitHub](#)]

Technical Skills

Programming Languages: JavaScript, Python, SQL, Rust, C++, C#, Java, Dart, HTML/CSS

Platforms/Tools: REST APIs; Firebase (Auth, Firestore); Google Cloud (Cloud Run/Functions); Stripe; SQL; Git/GitHub; Jira; Chrome Extensions API; Flet, Webpack, Vue (portfolio)

Languages: English (Native); Japanese (Fluent, JLPT N1); German (Fluent)