Peter Johnstone

peter.johnstone@bucknell.edu | linkedin.com/in/peter-johnstone1 |
github.com/Peter-Johnstone | Portfolio

Education

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

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 emphasizing DS&A + clean code.

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/CD for automated builds/deployment.
- 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; achieved 2800 Elo vs chess.com bots (levels 1–8) through calibrated self-play testing. [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; Git/GitHub; Jira; Chrome Extensions API; Flet, Webpack, Vue (portfolio)

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