Christopher Pyle

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chrispyle.dev | github.com/chpy04 | Availability: May—December 2027

Education

Northeastern University – Boston, MA Graduation: May 2028
BS in Computer Science, Software concentration, Math minor *GPA: 3.97/4.00*

- **Relevant Coursework**: Object Oriented Design, Algorithms and Data, Computer Systems, Programming Languages, Intro to Databases, Accelerated Fundamentals of Computer Science 1 & 2, Linear Algebra
- **Extracurriculars**: Northeastern Electric Racing (Chief Software Engineer), Northeastern Alpine Ski Team (President), Teaching Assistant (Fundamentals of Computer Science 1 & 2)

Technical Skills

Languages: Java, Python, Typescript, JavaScript, Rust, C, C++, SQL, Terraform, HTML, CSS, Racket
Frameworks & Tools: Git, Docker, React, Node, Express, Prisma, FastAPI, SQLAlchemy, Django, Dropwizard
Cloud Technologies: Github Actions, Kafka, AWS (EB, SQS, ECS, EC2, S3, RDS, Amplify, DynamoDB), Netlify, Vercel

Experience

Whoop July 2026 — Present
Software Engineer Co-op *Boston, MA*

- Redesigned architecture for distinguishing sleeps from naps across 3 Java services for 10 million calls per day
- Fixed numerous bugs during refactor impacting over 10,000 users / day using custom datadog and snowflake analytics
- Identified and resolved race condition when merging activities where premature ack violated Kafka partition ordering
- Designed abstracted achievements platform with Kafka & Postgres to process triggers fully asynchronously
- Supported conversion of pkey column in 1.7 billion row db from int4 to bitint, utilizing duel writes and backfills

Northeastern Electric Racing January 2024 — Present
Chief Software Engineer *Boston, MA*

- Overseeing all software for a Formula SAE team, from on-car embedded code to data applications, vehicle simulation, and a club-wide ERP. Setting technical direction and leading a 100+ member division across four sub-teams
- Built 2 custom internal MCP servers, allowing agents to query internal ERP & 1.3 billion historical data points
- Designed and implemented full AWS infrastructure with Terraform, automated deployments, reduced costs by 30%
- Added batch sweeping to quasi-static parametric simulation with parallel async processing through redis orchestrator
- Implemented a file review system where users can upload, view, markup, and approve drawings for CAD parts

Meridian March — July 2026
Forward Deployed Software Engineer *Boston, MA*

- Identified, architected, and built AI solutions for 8 unique real estate clients. Focussed on quick iteration cycles and meaningful client interaction to provide business value in short time frames through both consultations & shiping code
- Built InHabit, a production 3D ADU configurator (React/TS + FastAPI/Postgres), with AI powered admin analytics
- Advised a CRE brokerage on AI adoption, shipping custom Claude agents for market research & lease abstraction
- Iterated a reusable Claude Code harness across 5 repos: custom skills, subagents, lint hooks, path-scoped rules, etc

Other Experiences: Software Engineer Co-op, Via Separations, July - Dec 2025 | Teaching Assistant, Northeastern Khoury College, Sep 2024 – Apr 2025 | Software Engineer Intern, Unicode, Summer 2023/24

Projects

Inventory App for The National Guard | *React, Postgres, FastAPI, AWS* Spring 2026

- Full-stack inventory app for the Massachusetts National Guard, digitizing audit process making it 3x faster
- Fully deployed with AWS EB, including custom 2FA through SES and migratable infrastructure through Python SDK

Bit board Chess Engine | *C, GO, Web Sockets* June 2025

- Created bit board chess engine in C with alpha beta pruning, iterative deepening, and search extensions
- Deployed engine in full-stack web app using React, Web Sockets, and Golang to interface with the engine

Alpine Skiing Image Processor | *Python, Yolov8, PyQt5* January 2025

- Trained computer vision model on custom dataset to automatically recognize bib numbers of ski racers in photos
- Developed user interface for bulk processing 400 photos / week, generating $600 in sales revenue

Additional Information

Interests: Skiing | Ski Racing | NeoVim | Mountain Biking | Rock Climbing | Hiking | Car Racing | Cats | Weightlifting
Accolades: Deans List all semesters | Red Cross CPR & First Aid | Bill Taylor Essay Contest Winner | Cum Laude