Kevin Pierce

+1 647-328-7687 | k3pierce@uwaterloo.ca | github.com/kevin-pierce | linkedin.com/in/kwpierce | kevinpierce.dev

EDUCATION

University of Waterloo   Sep 2019 – May 2025
Bachelor of Software Engineering   89.6% CGPA
- Courses: Algorithms, Data Structures, Concurrency, Databases, OOP, Operating Systems, Networks, Architecture

SKILLS

Languages: Python, Go, C/C++, TypeScript, JavaScript, Kotlin, Java, SQL, Elixir, Bash
Frontend: React, Next.js, Redux, Electron, Jest, Playwright, HTML/CSS, Gatsby, Bootstrap, Chakra
Backend: Node.js, Express, Flask, GraphQL, MongoDB, Terraform, S3, DynamoDB, Lambda, RDS, Redshift

EXPERIENCE

Balyasny Asset Management – Data Engineering Intern   New York, NY | May 2024 – Aug 2024
- Built ingestion pipeline with **Python**, **Airflow**, and **Postgres** to onboard **4** data feeds driving investment insights
- Conducted QC analysis and data sanitation with **Pandas** to clean data, syncing with vendors to resolve issues
- Developed a RAG dashboard with **Lambda** and **DynamoDB** to track health of key data ingestion systems

Tesla – Software Engineering Intern   Palo Alto, CA | Jan 2024 – Apr 2024
- Developed integration layer for AGV (Automated Guided Vehicle) in **Go**, involving app-to-robot map synchronization, parallel connection management, and task orchestration, to enable control via in-house fleet manager
- Built UI-based rule evaluator and editor with **React** and **GraphQL** to simplify configuration of robot tasks & jobs
- Implemented **15+** production alerts in **Grafana** using **PromQL** and **SQL** tracking inventory status and robot health

Relay Financial – Software Engineering Intern   Toronto, ON | May 2023 – Aug 2023
- Optimized applications endpoint using batched operations and queries, reducing p50 time from **250ms** to **80ms**
- Reduced bundle size from **4.2MB** to **0.9MB** through **treeshaking** and **Webpack** optimizations to shorten load time
- Built and released pending transactions feed feature with **Express** and **DynamoDB** to provide cashflow insights

Score Media and Gaming – Software Engineering Intern   Toronto, ON | Sep 2022 – Dec 2022
- Created and refactored **20+** components with **React** and **GraphQL** subscriptions to leverage real-time sports data
- Engineered E2E visual regression tests with **Playwright** and **CircleCI** to track UI changes with **93%** app coverage

Wish – Software Engineering Intern   San Francisco, CA | Jan 2022 – Apr 2022
- Developed **cron** scripts to audit and flag **600,000+** orders in **Presto**, improving runtime of payments-related **Mongo** queries from linear to constant time, reducing lookup times by **60%** on average
- Built automated email API with **GraphQL** and **Python** to facilitate new reporting feature for suspicious orders

TRIYO – Software Engineering Intern   Toronto, ON | May 2021 – Aug 2021
- Architected and launched user metric graphs and PDF export features for TRIYO Insights Dashboard using **React**
- Lead optimization initiative for filters module by refactoring **15+ React** components, reducing render time by **35%**

RESEARCH

Cecchini Lab – Full Stack Developer   London, ON | Mar 2021 – Mar 2023
- Engineered full stack **React** and **Express** web-app with **Passport** auth to facilitate pathology education and track consensus scoring for histology slides ; authored and presented abstract at Schulich Pathology conference **(link)**

EXTRA CURRICULAR

UW Blueprint – Software Developer   Waterloo, ON | Apr 2023 – Dec 2023
- Built log tables with pagination and editing features for a resident check-in tool using **Postgres**, **React**, and **Flask**