

Sean McGuire

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EDUCATION

Northeastern University Khoury College of Computer Sciences Boston, MA
Bachelor of Science in Computer Science & Business Administration Sep. 2020 – Dec. 2023
Honors: GPA: 3.7/4.0 | Magna Cum Laude | Dean's List | Scholarships: Resilience Award, Achievement Award

The American School In Japan Tokyo, Japan
High School Diploma Aug. 2016 – June 2020
Honors: GPA: 3.9/4.0 | High Honors with Distinction | AMIS International Honor Jazz Band | AP Scholar with Distinction

TECHNICAL SKILLS

Programming Languages: C#, Java, Kotlin, Python, PHP, SQL, TypeScript, JavaScript, C, HTML/CSS, R
Frameworks & Libraries: .NET, Kafka, Aerospike, Redis, Postgres, gRPC, REST, GraphQL, JUnit, Karate
Tools & Technologies: JIRA, Git, K8s, Docker, Datadog, GBQ, Kibana, Grafana, Terraform, Jenkins, Maven

PROJECTS

Covey.town Spotify Interactive Area | *TypeScript, ReactJS, Netlify, Heroku, Spotify API* Feb. - May 2023
• Integrated Spotify API into Covey.town for user authentication and synchronized playback across players

Image Processing Application | *Java, JavaSwing, JUnit* May - June 2021
• Built an app with 6 filters, resizing tools, and a JavaSwing GUI for manipulation of jpg, png, and ppm files

RELEVANT EXPERIENCE

Wayfair LLC. Boston, MA
Software Engineer, Supply Chain & Retail Tech June 2024 – Present

- Led the department-wide adoption of Postgres by enhancing Terraform infrastructure for easy db creation and IAM provisioning. Integrated Postgres into a data access library, streamlining adoption across the department
- Reduced p50/p99 latencies of a key storefront API by 7/8%, respectively, by enhancing kafka data propagation, enabling the obsolescence and removal of redundant SQL queries and surrounding code
- Optimized Kafka consumer applications processing 500k+ messages per second, improving data integrity, eliminating bottlenecks, and enhancing concurrency to ensure real-time processing at scale
- Architected a Kafka pipeline that prevented 63M+ legally non-compliant products from being sold by filtering violating SKUs from real-time product availability data
- Corrected the legal compliance of 300+ suppliers by identifying and resolving a bug impacting export restrictions
- Led preparation efforts for peak sales events by scaling resources and caches, and load-testing storefront services
- Mentored 2 new hires through the onboarding process, enabling their contribution to production code in 2 weeks

Software Engineering Co-Op, Marketing Tech July 2022 – Dec. 2022

- Improved the quality of ads displayed on the storefront with a new Java advertisement ranking algorithm
- Optimized our ad footprint and enhanced the shopping experience by implementing logic to scale ad quantities
- Corrected the cost of 650,000+ daily ad clicks by discovering and resolving a bug in an ad pricing algorithm
- Led an initiative for two teams upgrading PHP backend repositories to ensure continued support and maintain UX

Expedia Group Seattle, WA
Software Engineering Intern, Checkout Experience June 2023 – Sep. 2023

- Led E2E API testing initiative to design and deploy liveness checks for the checkout page across Expedia brands
- Conducted extensive refactoring leveraging object-oriented patterns, driving extensibility for new transaction types
- Created a Github Action to automate syncing changes between deployment pipeline UI and Github repository

Northeastern University Khoury College of Computer Sciences Boston, MA
Teaching Assistant, Fundamentals of Computer Science 1 Sep. 2021 – May 2022

- Hosted 4+ office hours and led 2 lab sections per week providing guidance in technical skills and design techniques
- Supported curriculum planning, grading, and exam proctoring for 60+ students.

PERSONAL INTERESTS

Music Performance | World Travel | Languages & Linguistics | Personal Fitness | Formula 1 | Cooking | Hiking & Trekking