DANIEL E. MCGRATH

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SUMMARY

Full-stack / backend software engineer with 5+ years across Java/JavaFX/Web apps, data platforms, and AWS. Known for improving concurrency, scaling messaging systems, and shipping internal tools that cut cycle time. Recently impacted by company-wide restructuring and now seeking backend/infra roles where performance and developer productivity matter.

SKILLS

- **Languages:** Java, JavaScript, Python, SQL, Scala
- **Frameworks:** JavaFX, Next.js
- **Cloud/Infra:** AWS, Docker
- **Data:** Spark, Hive, Vertica, Database Design
- **Practices:** Scrum, Monitoring/Alerting, CI/CD

EXPERIENCE

DeVilliers Technology Solutions *Boston, MA* **Mid-Level Lead Software Developer** *Oct 2022 — Aug 2025*

- Designed segmented thread pools (short vs. long-running) with dynamic scaling, eliminating UI freezes from contention and improving responsiveness by 10x.
- Implemented a JavaFX two-way file transfer feature (FDT protocol) with error checking, retries, and confirmations, reducing failed transfers and manual recovery.
- Re-architected the message backend with priority queues and optimized threading using inheritance/polymorphism patterns, reducing new protocol onboarding time from weeks to hours.

Part-Time Junior Software Developer *Jul 2021 — Jan 2022*

- Rewrote a JavaFX app that became the primary simulation testing tool, streamlining test runs and reducing manual steps.

Criteo *Boston, MA* **Software Development Engineer** *Jan 2022 — Oct 2022*

- Enhanced analytics dashboards by deploying Spark clusters and integrating Hive/Vertica, improving data processing speed and dashboard responsiveness.

Part-Time Software Development Intern *Jul 2021 — Jan 2022*

- Contributed to a gamified ad-experience browser extension (Angular, ASP.NET), improving delivery timelines and boosting user engagement.

WHOOP *Boston, MA* **Co-op Web Developer** *Jan 2020 — Aug 2020*

- Built internal apps: (1) membership services portal with Stripe integration to cut manual operations; (2) dashboard/tools for signal processing & field testing to improve data accessibility.
- Implemented AWS monitoring/alerting for key metrics, increasing uptime and detecting multiple intrusion attempts.

MEDITECH *Boston, MA* **Co-op Programmer** *Jan 2019 — Aug 2019*

- Built a VS Code extension for React Native components, streamlining integration and reducing boilerplate code for the development team.

EDUCATION

Northeastern University *Aug 2017 — Dec 2021*

Bachelor of Science, Computer Engineering | Minor: Entrepreneurial Engineering

INTERESTS

Music Production ▪ Mead Brewing ▪ Sourdough ▪ Apartment Gardening ▪ Real Estate ▪ Anime