





# Justin Fortin

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Senior Software Engineer with experience in designing and developing RESTful APIs and distributed stream processing systems in Java and NestJS Typescript using Google Cloud and open-source technologies.

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## Experience

JANUARY 2017 – PRESENT

### Senior Software Engineer / NCR Corporation Atlanta, Georgia

- Responsible for developing and maintaining the core Provisioning and Security services for the NCR Commerce Platform, handling billions of API requests per month and ensuring consistent authentication, authorization, and configuration across NCR's portfolio of cloud services.
- Designed and built the platform Notifications service, a WebSocket publish/subscribe system that delivers real-time events enabling Online Ordering and Delivery solutions. The service leverages Google Cloud Pub/Sub, Memorystore, and Kubernetes Engine to enable horizontal scaling, and currently handles production workloads of over a thousand events per second and tens of thousands of WebSockets.
- Led a team of engineers to design and develop a horizontally scalable distributed stream processing system to validate, process, and deliver Loyalty and Stored Value transactions with multi-stage retry logic guaranteeing no loss of data even in the event of a downstream outage.
- Built automated end to end performance and reliability testing solutions to ensure code quality and proactive monitoring and alerting systems to detect and triage issues before customers report them.
- Built GitOps based build and deployment automation including canary deployments with automated testing and promotion, enabling developers to ship code more frequently and with more confidence.
- Participated in production support on-call rotations and handled escalations from more junior engineers. Ran incident triage and rapid patch processes for the applications I owned.
- Mentored junior engineers both on my team and in the broader organization in software development best practices and essential business skills.

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## Education

DECEMBER 2016

### B.S. Computer Science / Kennesaw State University Marietta, Georgia

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## Skills

- Java, Spring Boot/Cloud/Data, Hibernate JPA
- Typescript, NestJS, Express
- PostgreSQL, Redis, Google Cloud PubSub/Memorystore
- Google Cloudbuild, GitHub Actions, Google Kubernetes Engine, Flux, Flagger, Helm, Terraform