Lawrence P. Gouger

LEAD SOFTWARE ENGINEER

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Summary

I'm seeking a role as a Lead Software Engineer. My career includes time as a Senior Developer and as an Engineering Manager. I've reached the conclusion that I enjoy the former more. I enjoy having my hands in the architecture, design, coding, testing, deploying, monitoring, and overall ownership of a software system. I understand that there's more to developing reliable, scalable, maintainable, and performant software systems than simply writing the code. I enjoy the team building process and helping mentor all team members as they grow and develop.

Summary of Skills

Programming	Java, Python, Kotlin, Clojure, Perl, C, C++
DevOps	AWS, Docker, Kubernetes, GitOps, Terragrunt, Terraform, Serverless
Back-end	Spring Boot, Spring Data, Spring Web, REST API, MySQL
Agile	Scrum, Kanban, Rally

Education

Carnegie Mellon University · 🎓 cmu.edu   *Pittsburgh, PA*

B.S. IN ELECTRICAL ENGINEERING AND MATHEMATICS   *1985*

- Ecole Polytechnique Fédérale de Lausanne (EPFL.ch) — Junior year exchange program. Studied Electrical Engineering in French.

Current Work Experience — Cox Automotive, Inc.

I was hired by Cox Automotive, then called Dealer.com, as an Engineering Manager, one of two in their Manhattan Beach, CA office. I managed engineers who were part of 2 scrum teams, a total of 7 individuals.

Prior to becoming an Engineering Manager in my career, I had been a senior software engineer, and as an Engineering Manager, I kept my hands in the code, usually by intercepting one-off requests that risked derailing my team's planned efforts. In late 2016, Cox Automotive decided to end it's engineering presence in the Manhattan Beach office. After helping to wind down the engineering effort in the office, I transitioned to an individual contributor role as a Senior Developer. In 2017 the entire Manhattan Beach office was closed, and I began working remotely as a member of a Scrum team based in Burlington, VT. Being a California based developer working with a team based in Burlington VT was difficult. After working remotely for a year I decided to relocate to Burlington, VT and work with my team in person. Moving to Burlington had two benefits, the direct, in person interaction was more fun and it led to more advancement opportunities.

Dealer.com — Platform Engineering   *Burlington, VT*

SENIOR SOFTWARE ENGINEER · SCRUM TECH LEAD   *July 2020 — Present*

Joined the DDC Platform Scrum team to pursue a Scrum Team Tech Lead role. Dealer.com's Platform Engineering team is responsible for several backend systems supporting Dealer.com's Web sites, Advertising and Inventory systems.

NEW SKILLS
- **AWS Technologies:** ECS/Fargate, EKS
- **Container Technologies:** Docker, Kubernetes
- **Infrastructure as Code (IaC):** Terragrunt & Terraform
- **Spring Frameworks:** Spring Cloud, Spring Webflux

Dealer.com — Agency Advertising   *Burlington, VT*
                                                                         Manhattan Beach, CA

SENIOR SOFTWARE ENGINEER   *May 2017 — July 2020*

Joined team as an individual contributor following the closing of the Dealer.com office in Manhattan Beach, CA. For the first year I worked remotely from CA for a VT based team. In June 2018, I moved to VT seeking to improve advancement opportunities.

The team's focus was on systems to support digital advertising at Google, Microsoft, Facebook, and YouTube. Our systems enabled advertising the inventory of our clients' dealerships as their inventory changed. I was responsible for the design, implementation, testing, deployment, and support of these systems.

NEW SKILLS

- **AWS:** Lambda, API Gateway, S3, SQS, SNS, RDS, DynamoDB, IAM, SSM, Secrets Manager, EC2, Elastic Beanstalk, Networking (vpc, subnets, security groups)
- **Infrastructure as Code (IaC):** Terraform & Serverless
- **Development Languages:** Java, Kotlin, Python
- **Spring Frameworks:** Spring Boot, Spring Data, Sprint RESTController, Spring Core Framework
- **Python Technologies:** async programming using libraries: trio & asks, pipenv, poetry
- **Database Technologies:** MySQL (onprem, RDS, and Aurora), AWS Athena, DynamoDB
- **API Technologies:** REST, Swagger/OpenAPI, gRPC, Spring Remoting
- **Messaging Technologies:** SQS, AmazonMQ, RabbitMQ
- **Other Technologies:** New Relic (APM, Infrastructure, Synthetics), LaunchDarkly

Dealer.com — Social Applications Development
Manhattan Beach, CA

ENGINEERING MANAGER
Jan. 2013 — May 2017

MANAGEMENT SKILLS

- Team Building, Sustainable development pace and Work/Life balance
- Regular 1-on-1 meetings and Quarterly check-ins/reviews
- Hiring and Termination

AGILE SKILLS

- Scrum, Kanban (Due to small team size, I performed the Scrum Master role.)
- SAFe 3.0 (A Cox variant of SAFe called CAFe)

TECHNICAL SKILLS

- **Languages:** Java, Perl, Groovy
- **Spring:** Spring Boot, Spring Data, Spring AMQP, Spring Core Framework
- **Tools:** IntelliJ IDEA, maven, git, Grails
- **Database Technologies:** MySQL, MongoDB
- **API Technologies:** REST, Spring Remoting

Previous Experience — ITG, Inc.

SKILLS AT ITG

ITG, Inc.
Culver City, CA

SENIOR ENGINEERING MANGER
Oct. 1991 — July 2011

I started when ITG was part of the Jefferries, and participated as ITG went public in 1994. Today, ITG is part of Virtu Financial.

MANAGEMENT SKILLS

- Led technological transitions (eg. from C++ on Solaris to C# on Win32), Launched a remote team in NYC.
- Team Building, Team member reviews and one-on-ones, Hiring, Performance Improvement Plans, and Firing

DEVELOPMENT SKILLS

- **Platforms:** Linux, Solaris, unix, JVM, Win32, CLR
- **Agile Skills:** Scrum, Extreme Programming, Pair Programming
- **Development Languages:** Java, C, C++ (gcc), C#, Perl
- **Development Tools:** SVN, Clearcase, Eclipse, Visual Studio, Rally
- **Technologies:** Sybase ASE & Aleri, IBM CPlex Optimizer

SUMMARY OF RESPONSIBILITIES

ITG Platform Tools
Culver City, CA

SENIOR ENGINEERING MANGER
Oct. 2009 — July 2011

I managed a team developing tools to monitor trading within the firm.

POSIT Now & Match NOW
Culver City, CA

ENGINEERING MANGER
Sept. 2004 — Oct. 2009

POSIT Now and MATCHNow in Canada were ATSs (Automated Trading Systems) for trading equities. Orders submitted to these systems were anonymous to minimize potential market impact, and trades executed by the systems were at the midpoint of the national best bid and offer.

Algorithmic Trading Systems
Culver City, CA

ENGINEERING MANGER & SENIOR SOFTWARE ENGINEER
May 1997 — Sept. 2004

I started as the developer of the first Algorithmic Trading System at ITG, a VWAP Server. It used the "Auto-Trading" capability of ITG's QuantEX equity trading system. I went on to lead the development of four generations of very successful Algorithmic Trading systems at ITG.

QuantEX & Canadian QuantEX. *Culver City, CA*

SENIOR SOFTWARE ENGINEERING *Oct. 1991 — May 1997*

ITG's QuantEX was an Equity Trading and Analytics application on a Sun workstation. While a member of the team I had the following roles, Senior Developer, Tech Lead, and Manager. My first engineering management role was as the leader of the Canadian QuantEX development team.

Previous Experience — TRW, Inc.

TRW Inc. *Redondo Beach, CA*

SENIOR MEMBER OF TECHNICAL STAFF *June 1985 — Oct. 1991*

Senior Developer, C, SunOS/Solaris, worked on applications that exploited a TRW search technology called the Fast Data Finder.

Other Activities

Languages	English (Mother Tongue), French (Conversational)
Photography	Landscape Photography, Travel Photography, Adobe Lightroom & Photoshop
Architecture	Charles and Henry Greene, Frank Lloyd Wright, California Modernists (Neutra, Schindler, Ray Kappe, Dean Nota)