

## EXPERIENCE

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**Improbable, London, UK**

Jul 2017 – Present

Software Engineer

- Mentored an intern to design, implement, and deploy production ready distributed systems written in **Go** on **Kubernetes** with **ElasticSearch** for logging, and **Prometheus** for metrics and alerting
- Led the design and migration of NoSQL datastore to cloud-agnostic **PostgreSQL** to improve performance when querying customer data while offering over high availability of 99.999% uptime
- Built **continuous deployment** pipeline in **Jenkins** eliminating 2 hours of manual work, allowing bugs to be immediately identified, and leading to the discovery of flaky integration tests
- Designed A/B testing configuration management tool using **React** and **Redux** backed by **git** to manage configuration versioning to fix complicated and error prone processes

**Google – Nest, Palo Alto, California**

May 2016 – Sep 2016

Software Engineer Intern

- Deployed **Cassandra** database querying system for perform data analysis of over 3 million IoT device
- Improved engineer's productivity by implementing a new API that removed 3 extra steps in workflows
- Refactored **Scala** services to use dependency injection to simplify testing and code modularity

**Snapsale, Oslo, Norway**

Sep 2015 – Dec 2015

Software Engineer Intern

- **Dockerized** machine learning backend to reduce deployment time down to 5 minutes from over 1 hour allowing engineers to deploy 7 times more often than previously
- Architected **continuous integration** pipeline on Jenkins with **Github** to eliminate buggy code from merging
- Reduced response time of machine learning APIs by over 600% from 1000ms to 130ms by using cache

**Medallia, Palo Alto, California**

May 2015 – Aug 2015

Software Engineer Intern

- Increased user engagement and experience by developing an **Express** middleware to A/B test frontend UI
- Reduced site load time from 5s to less than 1s by hacking **git** revision to cache file in clients' browser

## EDUCATION

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**Bachelor of Computer Science, Honours, Co-op**

2012 - 2017

University of Waterloo, *Waterloo, Canada*

## PROJECTS

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**Bitcoin Algorithm Trading** – Utilizing GDAX API to process and analyze thousands of bitcoin price updates to make optimal trades. Tools: **Scala, Google Compute Engine, GDAX API**

**PayToPotty** – Hackathon winning app developed with a team using location services and Google Maps API to find nearby bathrooms rented out by others. Tools: **Meteor.js, bootstrap.js, Google Maps API**

## LANGUAGES & TECHNOLOGY

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- **Languages:** Go, Java, Python, JavaScript, Node.js, Scala, C/C++, Bash
- **Infrastructure:** Docker, Kubernetes, Terraform, Prometheus, ElasticSearch, Jenkins, Bazel, Amazon Web Services (AWS), Google Cloud Platform (GCP), Git, gRPC, ProtoBuf
- **Databases:** PostgreSQL, MySQL, Cassandra, etcd, Google Cloud Datastore