LELAND JANSEN

BSc Software Engineering University of Alberta Class of April 2019 GPA 3.5/4.0

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EMPLOYMENT

Apple / iOS Keyboards Intern

May - December 2018

• iOS Keyboards team member developing keyboard and autocorrect software for iPhone and iPad. www.lelandjansen.com/apple

Google / Software Engineering Intern

May – August 2017

- AdsCrawl team member developing backend logic and infrastructure to optimize the rate at which Ads data is processed.
- Developed *Lightbulb* RPC sharding service from **start-to-finish** in three months including design, implementation, testing, and deployment. Processes on the order of **100k requests per second**.
- Lightbulb reduced rejections between services by **6.1x** and compressed standard deviation by **5.0x**. Allows upstream service task count to scale without disproportionally increasing request rejections.

www.lelandjansen.com/google

Zaber / Software Developer Co-op

January - April 2017

- Firmware and Electronics team member developing software to control Zaber's precision motion control products.
- Developed **three customer-facing features** during four-month placement: custom autocomplete text field, new software installer, and crash-reporting system including client and backend logic.

www.lelandjansen.com/zaber

Shopify / Developer Intern

May - August 2016

- Production Engineering Traffic team member developing reliable and scalable networking infrastructure to serve high-volume *flash sales*.
- Pioneered tooling framework to automate server tasks and interfaced with ChatOps bot. Presented tools to production engineering team *Shopifolk*, now used on a daily basis.
- Authored load balancer configuration and moved services to new infrastructure with **no downtime**. www.lelandjansen.com/shopify

PROJECTS

Fatigue

- Native iPhone application for geophysical-survey pilots to self-assess their fatigue level.
- Features **programmatic UI** with intuitive data entry mechanism.
- Employs **graph theory** algorithms and data structures to represent questionnaire. www.lelandjansen.com/fatique | itunes.apple.com/app/fatique/id1211561428

Quantus

- Distance measurement device for high school and university physics labs (embedded system).
- Reduced speed-of-sound algorithm runtime by 67.7% using calculus-derived linear approximations.
- Designed all project components including software/firmware, tooling, circuit board, and brand. www.lelandjansen.com/quantus

ScaleBook

- Musical scale website for pianists studying for technical component of examinations.
- Custom natural language processing algorithm interprets user queries with 99% accuracy.
- Developed music algorithms to **compute scale information** in lieu of querying a database. www.lelandjansen.com/scalebook | www.scalebook.org

LANGUAGES AND TECHNOLOGIES

- Advanced proficiency in C++ and Python.
- Experience with C, CSS, C#, Java, JavaScript, Mathematica, MATLAB, Ruby, Rust, and Swift.
- Experience with AngularJS, Chef, CMake, CocoaTouch, Git, Google Test, .NET, NUnit, RSpec, and WPF.
- English (native), Spanish (advanced).

COMPLEMENTARY SKILLS

- Dedicated CrossFit athlete (2013 present) training 5 days/week.
- Level 8 piano with **first-class honors** (Royal Conservatory of Music, 2013). www.lelandjansen.com/crossfit | www.lelandjansen.com/music