

# BAI LI

## Computer Science

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### Technical Skills

- Languages (ordered by proficiency descending): Java, Python, C++, C, Javascript, SQL, HTML, CSS, PHP, Objective-C, Haskell, Scheme
- Libraries and Frameworks: Django, SQLAlchemy, Flask, Android, iOS, J2EE, jQuery, Backbone.js, Node.js, Bootstrap
- Software and Tools: Git, SVN, Eclipse, Vim, Amazon AWS, Heroku
- Software Engineering: Object Oriented Programming, Unit Testing, Agile Methodology
- Excellent command of algorithms and data structures

### Education

**Sep 2017 – Present:** University of Toronto

- M. Sc. in Computational Linguistics Group
- Advisor: Frank Rudzicz

**Sep 2012 – Apr 2017:** University of Waterloo

- Bachelor's Degree, Computer Science (BMath), French Minor
- Graduated with Distinction: Dean's Honours List
- Average: 93%

### Work Experience

- **Software Engineer – Yelp** (Sep-Dec 2016, San Francisco)  
Worked on the Performance team, where I built internal tools for developers to track performance. Built a prototype of caching proxy service using Nginx, Lua, Memcached and Redis. Used Docker, Puppet, and Jenkins to deploy and manage a variety of microservices. Optimized slow web pages in Yelp's main website.
- **Software Engineer – Yext** (Jan-Apr 2016, New York)  
Worked on the core Platform team, which integrates various services and components. Developed location management tools using the Play Framework, Protocol Buffers, Hibernate, and Groovy / Soy templates. Maintained and refactored microservices and built a framework for Docker integration testing.

- **Software Engineer – Minted** (May-Aug 2015, San Francisco)  
Developed end-to-end solutions for designers and artists to independently launch stationery products to an online marketplace. Extended legacy fulfillment system with a new workflow to make customizable holiday cards. Independently drafted technical designs and built prototypes spanning across many departments in the company. Used Amazon Web Services (SQS, S3, EC2) to distribute load across many servers. Other frameworks used are SQLAlchemy, Bottle, Backbone.js.
- **Software Engineer – A Thinking Ape** (Sep-Dec 2014, Vancouver)  
Implemented features for top-selling mobile games Kingdoms at War (KaW) and Party In My Dorm (PIMD). Worked extensively with the Django Framework (Python) and Android Platform. Used ORM, MySQL, Redis, and Websocket technologies to deliver a fast and reliable gaming experience to thousands of concurrent players. Architected API interfaces for client-server communication
- **Software Developer – TutorJam Canada** (Jan-Apr 2014, Kitchener)  
Full stack developer for YuJa, an online video collaboration platform. Used Java EE, Wildfly, HTML, Javascript, CSS, jQuery, SQL, Bootstrap, Amazon AWS, and Twilio to build a scalable and modern web application. Worked independently and collaboratively to design, implement, test, and deploy several major features.

## Selection of Personal Programming Projects

- **WATisRain**
  - Android and iOS app to help you navigate the buildings of the University of Waterloo without going outside
  - Installed by thousands of Waterloo students, with 4.6 of 5 rating on Google Play
  - Github project at <https://github.com/luckytoilet/WATisRain>
- **Hackathons**
  - **Hack The North 2015**: Built app that deduces your sleep schedule from timestamps on Chrome's browsing history and Android system logs
  - **Topcoder Open San Francisco (2<sup>nd</sup> place winner)**: Built app to notify small businesses of upcoming local events.
  - **Bloomberg Code B Hackathon (2<sup>nd</sup> place winner)**: Competed against other teams to develop an autonomous stock-trading algorithm. Finished second place out of more than 50 teams.
- **Math and Computer Science Blog** (Feb 2010 - Present)
  - Explains complicated topics in math and computer science in plain English
  - Available at <http://luckytoilet.wordpress.com/>

## Other Activities and Interests

- Plays piano and guitar; enjoys playing classical and anime music
- Speaks English and Mandarin Chinese natively, French conversantly
- Hones algorithmic and coding skills regularly on online contests such as Google Code Jam, Project Euler, Codeforces, HackerRank