

# Alexander Maru

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## Education

**Bachelor of Mathematics**, University of Waterloo

*Expected 2014 → 2019*

Mathematics and Computer Science - Waterloo, ON

- Recipient of President's Scholarship of merit.
  - Studied data-structures and algorithms, comparing and analyzing various algorithms for efficiency.
  - Used functional, imperative and object-oriented paradigms.
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## Experience

**Web Interface Developer**, University Health Network

*May 2016 → Sept. 2017*

Princess Margaret Cancer Centre - Toronto, ON

- Worked on PharmacODB, a web application for analyzing multiple large-scale pharmacogenomic datasets.
  - Built application server-side using Ruby on Rails framework, with a MySQL database. Parsed R-generated csv files to store manually curated datasets in database.
  - Implemented an API in Go, restfully exposing all data available in PharmacODB via HTTP.
  - Tools used: Ruby, Rails, Go, MySQL, JavaScript, HTML/CSS, git, slack
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**Ignition**, Spark Boulder

*Feb. → May 2015*

Web Development Coding Camp - Boulder, CO

- Worked on various front/back-end projects to learn the fundamentals of web development.
  - Tools used: HTML5, CSS3, JavaScript, Ruby, Rails, git, slack, cloud9
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## Projects

**Cellosaurus API**, assefamaru/cellosaurus-api

*Jun. 2016 → Present*

<https://github.com/assefamaru/cellosaurus-api>

- Developed an unofficial API for Cellosaurus, a comprehensive collection of cell lines used in biomedical research.
  - Implemented the API in Go, using Gin framework for routing.
  - Built a MySQL database to store the data provided by Cellosaurus.
  - Wrote a parser in Racket to retrieve Cellosaurus text file data.
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**Kidane Mihret**, kidanemihret/front-end

*Dec. 2015 → Present*

<https://github.com/kidanemihret>

- Developed web application for my local church.
  - Built site support for both Amharic (native language) and English, using Rails I18n.
  - Built back-end app to keep track of members and inventory.
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## Skills

Racket, Go, Ruby, C, Java, Shell (Bash), JavaScript, HTML/CSS, Angular, Rails, MySQL, Git

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## Links

**github:** [assefamaru](#) | **twitter:** [@assefamaru](#) | **linkedin:** [/in/alexandermaru](#)  
**stackoverflow:** [/users/4739247/alexander-maru](#)

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## Interests

AI, ML, pure math, applied math, network security, competitive chess, cross-country running, travelling, cultures and languages, philosophy, soccer, drawing