

# BOYD CHING

Software Developer

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Web applications; design and development; intercultural experiences.

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## Technologies

Javascript, React, Python, Git

## Work experience

### Software Developer at AI2 - 2019 Feb ~ current

- Fast-paced, active development in a dynamic startup environment in Tokyo. I created several UI components of a bot management web application employed by some of the largest household names. React/Redux/Bootstrap frontend and Express/Sequelize-Postgres backend. Extensive tests with Mocha/Chai.

### JET Program in Toyama prefecture of Japan - 1 year

- English teaching to Japanese elementary and middle schools. This position also helped me develop my language and planning skills while gaining a deeper understanding of international culture.

### Barbara Construction Assistant Contractor - 1 year

- I performed demolition and hazards control towards renovating an Alaskan regional medical center. Assisted in correspondence between the project lead and separate onsite contractors.

### University of Alaska Anchorage Research Associate - 4 months

- I led the development of a prototype web service within 1 month using the PHP Codeigniter web framework.
- I created the frontend UI (CSS, HTML, Javascript) for accessing API functions of the NLP frameworks: spaCy, NLTK, and CoreNLP.
- The service can pre-process and classify text files of over 10,000 words. The functions are for filtering stop words, tokenizing text, classifying grammar type, and recognizing named entities.

## Interests and Languages

- Japanese (business level)
- Korean (proficient)
- Japanese hot springs
- Indoor rock climbing

## Education

### University of Alaska Anchorage (January 2010 -- May 2016)

Bachelor of Science in Computer Science.

### Hokkaido Kyoiku Daigaku (April 2014 -- February 2015)

Japan student exchange in Hakodate, Hokkaido.

## Projects

### NLP (Natural Language Processing) Undergraduate Research

- Through Python web scraping I created a series of test cases of 150 to over 1000 words and their inflections.
- Conducted evaluations of parts of speech tagging, named-entity recognition, stemming and tokenization between NLP frameworks: CoreNLP, spaCy, and NLTK.

### Oppia.org open source contributions

- I made contributions to website screenreader accessibility and code refactoring with AngularJS.