

# Ethan Chau

📧 ethch18 | in echau18

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## EDUCATION

### UNIVERSITY OF WASHINGTON

B.S., COMPUTER SCIENCE

(DATA SCIENCE OPTION)

B.A., LINGUISTICS

Expected June 2020 | Seattle, WA

GPA: 3.97 | Dean's List Au '16 - Au '19

## COURSEWORK

Natural Language Processing • Machine Learning • Artificial Intelligence • Algorithms • Data Structures & Parallelism • Computer Security • Data Management • Systems Programming • Data Visualization • Software Design & Implementation • Programming Languages

## SKILLS

### PROGRAMMING

Proficient

Java • JavaScript • Python

Familiar

Bash Shell • C/C++ • C# • Google

Protobuf • Racket • Ruby • SQL

### TECHNOLOGIES

Spring Framework • React.js • Cloudbees

Jenkins • AllenNLP • PyTorch • Git •

AssertJ • EasyMock • JIRA • Fisheye •

Upsource • HTML/CSS • SCSS

### LANGUAGES

English (Native) • Mandarin (Fluent) •

Cantonese (Proficient) • Spanish

(Conversational)

## LEADERSHIP

### CORE TEAM MEMBER

COMMON GROUND FELLOWSHIP

Aug. 2017 - Aug. 2018

## INTERESTS

Natural Language Processing • Machine Learning • Data Science • Piano • Violin • Guitar • Tennis • Ultimate Frisbee

## AWARDS

2018 - Phi Beta Kappa Nat'l Honor Society

2017 - UW Annual Dean's List

2017 - **3rd Place**, Google Games Seattle

## WORK EXPERIENCE

### UNIVERSITY OF WASHINGTON | NLP RESEARCH ASSISTANT

Mar. 2018 - Present | Seattle, WA | Advisors: Prof. Noah A. Smith, Lucy Lin

- Investigating task-specific embeddings in **PyTorch**-based models for high-performance **domain adaptation** in **natural language inference**

### UNIVERSITY OF WASHINGTON | TEACHING ASSISTANT

Jan. 2019 - Mar. 2019 | Seattle, WA | Instructor: Prof. Noah A. Smith

- Course: CSE 447/547M (Natural Language Processing)
- Developed and administered a new **PyTorch**- and **AllenNLP**-based text classification assignment
- Designed and **led** a weekly discussion section for 35 students
- Held weekly office hours to respond to student questions

### INDEED.COM | SOFTWARE ENGINEERING INTERN (BACKEND/DATA)

June 2018 - Aug. 2018 | Seattle, WA

- Integrated an **NLP** library into a **backend** suggestion service and developed a text extraction-based heuristic, yielding **6x** the number of acceptances and reaching **2x** as many users as the next best source
- Architected and developed a **Java-Protobuf** service infrastructure for machine learning evaluation that decreased required service calls by **5x**, increased logging coverage by **15x**, and enabled model onboarding in **5 lines** of code
- Deployed a **Jenkins**- and **Mesos**- based continuous integration system

### INDEED.COM | SOFTWARE ENGINEERING INTERN (FULL STACK)

June 2017 - Sept. 2017 | Seattle, WA

- Built and stylized a custom **React** frontend to minimize server load
- Upgraded a **Java** data storage model in response to client feedback
- Developed a set of **REST API** controllers with a test coverage of **over 90%**
- Implemented an **extensible backend** service format for efficient data retrieval

## PROJECTS

### WHERE'S MY BUS? | FULL-STACK WEB APP

Mar. 2018 - Present | A lightweight transit tracker for the Seattle area

- Implemented a **Bottle**-based **Python** API wrapper to process incoming data
- Managed API deploy to **Azure App Service** for high-speed request processing
- Designed and built a lightweight **React** frontend for dynamic content delivery

### ECHAU18.GITLAB.IO | PERSONAL PORTFOLIO

Sept. 2017 - Present | A sleek, portable website generator

- Integrated **SCSS** with **React** to design a modular, responsive frontend
- Defined a lightweight **JSON** data entry format for code-free site generation
- Configured a custom **Brunch** build system to streamline deploy process

### EVC CHARGE | WINDOWS METRO APP

May 2015 - Aug. 2016 | A charging station locator for electric vehicles

- Utilized **C#** and **XAML** to integrate UI with implementation
- Designed and programmed **custom Metro controls** to display station data

## COMMUNITY INVOLVEMENT

### EVANGELICAL CHINESE CHURCH | TAIWAN/AWANA YOUTH LEADER

Sept. 2013 - Sept. 2018 | Redmond, WA & New Taipei City, Taiwan

- Designed** and taught daily English classes to 20+ under-resourced youth
- Facilitated** daily re-evaluations with fellow teachers of content and methods
- Supervised and **mentored** incoming youth leaders