

Ethan Chau

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EDUCATION

UNIVERSITY OF WASHINGTON

B.S. IN COMPUTER SCIENCE

(DIRECT ADMISSION)

B.A. IN LINGUISTICS

Expected June 2020 | Seattle, WA

GPA: 3.99 | Dean's List Au '16 - Wi '18

COURSEWORK

Natural Language Processing • Artificial Intelligence • Algorithms • Data Structures & Parallelism • Computer Security • Data Management • Systems Programming • Software Design & Implementation • Hardware/Software Interface • System & Software Tools

SKILLS

PROGRAMMING

Proficient

C# • Java • JavaScript

Familiar

Python • C • C++ • SCSS • HTML • CSS

TECHNOLOGIES

React.js • AllenNLP • PyTorch • Git • Bash Shell • JIRA • AssertJ • EasyMock • Fisheye • Upsource

LANGUAGES

English (Native) • Mandarin (Fluent) • Cantonese (Near-Fluent) • Spanish (Conversational)

LEADERSHIP

CORE TEAM MEMBER

COMMON GROUND FELLOWSHIP

Aug. 2017 - Present

INTERESTS

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

AWARDS

2018 - Phi Beta Kappa

2017 - UW Annual Dean's List

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

WORK EXPERIENCE

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

June 2018 - Present | Seattle, WA

- Integrated a **natural language processing** library into a backend service
- Developed a **heuristic** for generating recommendations from text extractions

UNIVERSITY OF WASHINGTON CSE | UGRAD RESEARCH ASSISTANT

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

- Undergraduate research assistant in the Noah's ARK NLP group
- Investigated **PyTorch**-based models with task-specific embeddings for high-performance **domain adaptation** in **natural language inference**

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

OH MY ENGLISH | CLASS PROJECT FORK

Dec. 2016 - Jan. 2017 | A dynamic English phrase generator

- Implemented a **Java** scraping and parsing system to build word database
- Extended** class's sentence generator to utilize both grammars and wordlists

ROAST MY PANTRY | WEB APP

May 2016 - May 2017 | A beautiful ingredient-based recipe search engine

- Combined **JS** and **AWS API Gateway** to parse data into custom display
- Taught teammates **CSS** and collaboratively designed website from scratch
- Awarded **"0-60" Award**, CodeDay Redmond Spring 2016

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
- Awarded **Best Application Award**, CodeDay Downtown Seattle Spring 2015

ADDITIONAL EXPERIENCE

COLUMBIA ATHLETIC CLUBS | JUNIOR TENNIS ASSISTANT

Jan. 2014 - Sept. 2016 | Sammamish, WA

- Designed and **executed** lesson plans and drills for groups of 20+ youth
- Provided **1-on-1** technical and equipment insight to students and supervisors
- Fulfilled **multi-part orders** with an average turnaround time of **under 24 hours**