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 (Proficient) • 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 Nat'l Honor Society
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 **NLP** library into a **backend** suggestion service and developed a text extraction-based **heuristic** , yielding the highest acceptance rate (**over 70%**) of new suggestions and raising the average from **60% to 63%**
- Deployed a robust **Java** service infrastructure for **machine learning** evaluation, with increased availability and optimized resource usage

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

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

ADDITIONAL EXPERIENCE

EVANGELICAL CHINESE CHURCH | Taiwan/AWANA Youth Leader
Sept. 2013 – Present | Redmond, WA & New Taipei City, Taiwan

- **Designed** and taught daily English classes to 20+ underprivileged youth
- Supervised and **mentored** incoming youth leaders

COLUMBIA ATHLETIC CLUBS | Junior Tennis Assistant
Jan. 2014 – Sept. 2016 | Sammamish, WA

- 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**