YIDUO KE

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EDUCATION

Northwestern University Ph.D. in Computer Science

class of 2026

Mechanism Design

Cornell University B.S. in Computer Science (GPA: 3.82, Magna Cum Laude, Dean's List every semester) class of 2021

Analysis of Algorithms \diamond Analysis of Boolean Functions \diamond Introduction to Computational Complexity \diamond Functional Programming in OCaml \diamond Machine Learning \diamond Computer Vision \diamond Artificial Intelligence \diamond Probability Models and Inference \diamond Linear Algebra \diamond Discrete Mathematics \diamond Object-Oriented Programming and Data Structures

WORK EXPERIENCE

Teaching Assistant – Introduction to Analysis of Algorithms Cornell University CIS Department

Aug 2020 - Jan 2021, Feb 2021 - May 2021

Ithaca, NY

- Holding office hours to assist students in analyzing and designing algorithms and rigorous proofs
- Answering students' Piazza questions
- Attending grading sessions to grade students' assignments and exams

Software Engineering Intern Raytheon

June 2021 - Sep 2021 Riverdale, MD (remote)

• worked in NASA's EOSDIS team

deprecated ECHO-Token usage in NASA's Common Metadata Repository legacy services software

Software Engineering Intern

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May 2020 - Aug 2020 Riverdale, MD (remote)

- worked in NASA's EOSDIS team
- wrote a user interface for NASA Earthdata using data from NASA's Common Metadata Repository
- \bullet wrote unit tests for my product to run against
- deployed my product using Atlassian Bamboo and AWS, thus going through the entire software development cycle

Software Engineering Intern

Pacific Northwest National Laboratory

June 2020 - Aug 2020 Richland, WA (remote)

- worked in a team of 4 to develop a virtual reality app in Unity from start to finish
- implemented and addressed dynamic client requirements in the app
- met with clients every 2 weeks to present updates on development progress and gain feedback

Teaching Assistant – Foundations of Artificial Intelligence Cornell University CIS Department

January 2020 - May 2020

Ithaca, NY

- Held office hours to assist students in understanding course material and do homework
- Answering students' Piazza questions regarding course material
- Attending grading sessions to grade students' assignments and exams

TECHNICAL SKILLS

Languages Python, Octave, OCaml, Java, C, C++, C#, Julia Front-end skills HTML/CSS/Bootstrap, JavaScript/jQuery/D3.js

Back-end frameworks Flask, Node.js, Serverless, Unity

Cloud AWS services

Databases MySQL/SQLite/MongoDB

Tools Git, Linux(Ubuntu), Atlassian Jira, Bamboo, BitBucket

Embedded Programming RISC-V Assembly, reverse engineering

LANGUAGES

English native Chinese (Mandarin) native

German intermediate; member of National German Honorary Society $\Delta \Phi A$