

Tianqi Zhao

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EDUCATION

Bachelor of Science in Computer Science

Expected May 2023

Columbia University, New York, NY

- GPA: 3.74
- Relevant coursework: Programming in Java, Data Structures and the Fundamentals of Computing, Linear Algebra, Discrete Math, Web App Development, Operating Systems, Software Entrepreneurship, Natural Language Processing, Advanced Programming, Fundamentals of Computer Systems, and Computer Networks, Introduction to Databases, User Interface Design, Programming Language and Translators

EXPERIENCE

Software Engineering Intern

Changing Room, New York, NY

May 2022–present

- Work as incoming summer full-time intern to do full-stack development with the engineer team.

Software Engineering Intern

echo3D, New York, NY

May 2022–present

- Work as incoming summer part-time intern to do full-stack development with the engineer team.

Software Engineering Intern

Elphi, Inc., Boston, MA

December 2020–January 2021

- Developed both front-end and back-end user interfaces for mortgage lenders to view and manipulate all the borrowers' information using React.js and used Firebase API for retrieving and storing the data.
- Implemented the Material UI design and corresponding React Framework in the current interface.
- Revamped and programmed the comparators' user interface using Material UI, React.js, React-Select API, Reactstrap API, and CSS so that mortgage lenders could compare, filter, and view their tasks. Led the front-end team of 2 by organizing and documenting all the tasks and files to improve the team's efficiency.

PROJECTS

DeisCareer

Project Lead, Boston, MA

Mar 2022–present

- Develop a full-stack website that extracts alumni career data, visualizes it for students, and allows Computer Science office assistants, departmental staff, and professors to interact (create, read, update and delete) with the database.
- Use Python Flask and MongoDB as backend, Jinja2, Fetch API, Bulma and vanilla Javascript as frontend, and DigitalOcean and PythonAnywhere as deployment service.
- Has handled over 100 API requests and over 3000 lines of data.

Crust

Project Lead, New York, NY

Jan 2022–May 2022

- Designed a procedural programming language that embeds AWK functions using C-like syntax with a comprehensive Language Reference Manual. As the project lead of 5 people, is responsible for code review, merging pull requests, and project management from day one.
- Designed and programmed the compiler by using OCamllex as Scanner, Ocamllyacc as Parser, OCaml as Semantic Checker, C as external libraries, and LLVM as backend. Has added the support of various datatypes and operators like char, string, array, modulus, etc and 20+ awk and string functions.

SKILLS

Java, Python, C, Html 5, CSS, JavaScript, Node.js, React.js, Express.js, MongoDB, MySQL, SQLite, OCaml, Assembly