

# Yuxuan (Kevin) Zhu

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## EDUCATION

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### University of Illinois at Urbana-Champaign

*Master of Engineering in Electrical and Computer Engineering*

Dec. 2022

*Urbana, Illinois, U.S.*

### Northern Arizona University

*Bachelor of Science in Computer Science*

Jul. 2020

*Flagstaff, Arizona, U.S.*

### Huaqiao University

*Bachelor of Science in Computer Science*

Jul. 2020

*Fujian, China*

## OPEN SOURCE PROJECTS

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### Job Application Manager | *React, Node.js(Express, JWT), MongoDB*

- **GitHub Link:** <https://github.com/xingkongzyx/Job-Application-Manager>
- Created a responsive design job application tracking app that provides a centralized location for job seekers to save and manage their job applications.
- Managed front-end data efficiently using React's **reducer** and **context**, resulting in accessible data throughout the component structure.
- Developed back-end services using an **MVC pattern**, integrated **JWT authentication**, utilized **MongoDB** for data management, and implemented protected routes with robust error-handling design.

### Feedback Collection System for Startups | *React, Redux, Node.js(Express, OAuth), MongoDB*

- **GitHub Link:** <https://github.com/xingkongzyx/Feedback-Collection>
- Built a full-stack web application for startup owners to facilitate the collection of feedback from a large user base through email.
- Implemented a user-friendly front-end interface using **Material UI** and React, and efficiently managed front-end data with **Redux**.
- Integrated **Google OAuth**, **SendGrid API**, and **Stripe API** for authorization, email creation, and payment processing, enhancing the application's functionality.

### Sorting Algorithm Visualizer | *Python, Tkinter*

- **GitHub Link:** <https://github.com/xingkongzyx/Python-Sorting-Algorithms-Visualizer>
- Created a **Python Tkinter** application that visualizes sorting algorithms, including insertion sort, bubble sort, selection sort, quick sort, and merge sort, with customizable element count and sorting speed.

## WORK EXPERIENCE

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### Fiverr

*Freelancer React Developer*

Champaign, Illinois

*Jan. 2023 – Present*

- Employed React, JavaScript, and HTML/CSS to develop and maintain web applications as a freelance React Developer.
- Demonstrated a strong commitment to professional development by actively engaging in self-study and pursuing ongoing training to continuously enhance expertise in front-end development, with a specific focus on React.

### Northern Arizona University

*Cybersecurity Lab Research Assistant*

Flagstaff, Arizona

*May 2019 – Dec. 2019*

- Developed and executed keyless encryption schemes in C++, utilizing PUFs to address key generation, distribution, and management challenges.
- Authored a paper, "Extended Protocol Using Keyless Encryption Based on Memristors," presented at the 2020 SAI Conference.
- Evaluated the security of various encryption schemes by generating statistical graphs with the aid of Python's NumPy library for scientific computing and Matplotlib library for data visualization.

*Teaching Assistant*

*Jan. 2019 – Dec. 2019*

- Provided technical assistance and mentorship to students in the areas of Python programming, Object-Oriented Programming, and web development through one-on-one instruction and debugging sessions.
- Graded assignments and provided comprehensive feedback to over 180 students.

## SKILLS

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**Programming Languages:** Python, Java, C++, JavaScript, Typescript

**Web Technologies and Databases:** HTML/CSS, React/Redux, Node.js, Express, jQuery, PostgreSQL, MongoDB

**Developer Tools:** Amazon Web Services (AWS), Linux, Docker, Git, Visual Studio Code (VS Code)