Shuojia Lin

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EDUCATION

Mount Holyoke College Sep 2019 – May 2023

Bachelor of Science in Computer Science and Neuroscience, GPA: 3.96/4.0 *Boston, MA*

- **Related Courses:** Computer Systems, Database systems, Programming languages,Object-Oriented Programming, Data Structures, Algorithms

TECHNICAL SKILLS

Programing Languages: Java, Python, JavaScript, HTML, CSS, Motoko, SQL, C/C++, TypeScript
Frameworks & Tools: Git, React.js, Bootstrap, Express.js, Node.js, Redux, MongoDB, mySQL, Mongoose, Figma, Heroku, Chrome Dev Tool, Docker, Kubernetes

WORK EXPERIENCE

Ushine Inc May 2022 – Present

Software Development Engineer Intern *Remote, US*

- Designed and developed a behavioral self-assessment tool for an app, which resulted in 65% of user growth.
- Created a frontend interface with **React.js** and **TypeScript** for users to easily navigate and interact with.
- Integrated **hash table** in backend storage system to hold user data, reducing 50% of the record lookup time.
- Implemented a scalable backend service with **RESTful APIs** using **Express.js** to manage user behavioral test data, which increased the team's productivity by 30%.
- Set up a **CI/CD** pipeline with **Git** to manage code versions and effectively collaborate with team members, resulting in a more streamlined workflow.

Bytedance Ltd. May 2021 – Aug 2021

Product Manager Intern *Shanghai, China*

- Developed an authentication entry API with **express-validator**, which reduced 80% of manual overhead and resulted in 50% work efficiency improvement for the real-name authentication center.
- Led and coordinated the design, development, and launch of the TikTok cash withdrawal page in more than 10 countries for a better merchant and user experience.
- Promoted user growth in different regions by granularizing the page design, resulting in an increase in binding card conversion rate by 78%.

Mount Holyoke College Dec 2021 - Present

Neuroscience Research Assistant *Boston, MA*

- Created three-dimensional models of the trachea network system and neuronal cell types in a fly's brain using **Python**, which resulted in a better understanding of the quantitative relationship between the two systems.
- Visualized the tracheal system of a fly's brain in Blender from multiple angles and developed a heat map to show the branching pattern of the trachea system. The heat map helped to identify the hotspots of trachea system activity.

PROJECTS

OpenD DApp | *Motoko, React.js, JavaScript* Jul 2022

- Developed a Full Stack DApps that simulates an NFT marketplace where users can mint, list and sell NFTs on the internet computer by use crypto token and storing token balances in **Motoko Hashmaps**.
- Implemented marketplace functions such as displaying owned NFTs using the **React Router**.
- Enhanced authentication using internet computer auth-client to make the DApp more secure and user-friendly.

Sticky Note | *MongoDB, JavaScript, Node.js, BootStrap, Heroku* Jun 2022

- Led the development of a Full Stack **JavaScript** web app that allows users to record their daily mood, which has been deployed on **Heroku**.
- Spearheaded the design and implementation of a responsive UI with **React.js**, **Material-UI**, and **Bootstrap**.
- Integrated user authentication using **Passport.js**, and improved user input validation by implementing the Bootstrap Alert feature.
- Wrote unit tests using **Mocha and Chai** to test the backend APIs.

Flappy Bird GUI | *Java, Eclipse, JavaFX* Dec 2021

- Developed a **JavaFX**-based game, simulating a bird's flight between columns of green pipes without hitting them.
- Integrated a GUI with support for actions like wallpaper periodic change, sound effects, and the control of birds.
- Designed and implemented **Junit** test cases to achieve 100% coverage of main function paths.
- Improved software quality by complying with the DRY and KISS principles.