**Xuehang Xu**

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**SUMMARY**

Software developer with 2+ years of experience using **Java**, **JavaScript,** **NodeJS**. Master's degree candidate in Computer Science with a passion for building highly scalable systems and establishing strong connections with teammates in a fast-paced environment to maintain efficient workflows. Seeking a full-time software engineer position starting Summer 2023.

**EDUCATION**

**Stevens Institute of Technology** **Sep 2021 - Present**

Master of Science in Computer Science, GPA: 3.8 / 4.0 Hoboken, NJ

**Relevant Courses:** Introduction to JAVA Programming, Fundamentals of Computing, Introduction to Programming, Data structures & Algorithms, Data Mining II: Advanced Algorithms, Computer organization & Programming

**University of Oklahoma Jan 2017 - May 2021**

Bachelor of Business Administration inManagement Information System and Accounting Norman, OK

**PROJECTS**

**Around: A Cloud and ReactJS based Social Network**  **Jul 2022 – Sep 2022**

Front-end

* Implemented a full-featured social network web app allowing users to create and browse posts as well as search for nearby posts by location using **JavaScript** and 12 reusable components in **ReactJS** to enhance the user experience
* Improved the security and scalability through token-based authentication with **JWT** and server-side registration/login/logout flow, while maintaining a seamless user experience by leveraging **React Router v4**

Back-end

* Handled posts by launching a scalable web service in **Go** for high performance without the need for web frameworks, and deployed it onto **Google Cloud** (Google App Engine)
* Introduced **Elasticsearch** deployed to **GCE** to improve search speed for users to find recent posts and media files

**Tinnews: a Tinder-like News App Jun 2022 – Sep 2022**

* Designed the Instagram Flavor News app based on Google Component Architectural **MVVM** Pattern
* Implemented the bottom bar & page navigation using **JetPack** navigation components with standardized resources
* Reduced network traffic using **Room** database with LiveData & ViewModel to support local cache and offline mode
* Introduced intuitive swipe gestures for liking/disliking articles using a 3rd party **CardStackView** (RecyclerView)
* Integrated Retrofit and LiveData to reliable pull the latest data intermittently from a RESTful endpoint (newsapi.org)

**OnlineOrder: A Spring and Hibernate based Online Food Ordering System Feb 2022 – Jun 2022**

* Developed a modular web application for food delivery including registration, menu searching, ordering and checkout functionalities through **RESTful APIs**, using **Spring MVC** to promote the separation of concerns
* Utilized **Hibernate** to provide persistence to the database for access and operations of around 2GB of menu and restaurant information
* Enhanced user protection against malicious attacks by providing authentication and authorization via **Spring security**
* Improved user experience by building the client-side with **ReactJS** and Ant Design to place an order and check-out

**StarLinker: ReactJS based StarLink Trajectory Visualization Jan 2022 – Mar 2022**

* Developed a visualization dashboard using **ReactJS** and **D3** to track and display satellites in real-time based on geo-locations
* Built location, altitude, and duration-based selectors for more specific search queries in **JavaScript** with 100% code coverage and deployed the dashboard to **Amazon Web Service** for demonstration

**TECHNICAL SKILLS**

**Programming Languages** Java, JavaScript, Python, SQL

**Database/Cloud** AWS,EC2,MySQL, Google Cloud

**Tools/Frameworks** NodeJS,HTML, CSS, ReactJS, Spring, Docker