Tianxing Liu

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Education

University of California, San Diego   *Sept 2017 - Dec 2020*

Bachelor of Science in Computer Science   *GPA 3.8*

- **Honors**: Cum Laude, IEEE-HKN Honor Society, Phi Beta Kappa Honor Society, Caledonian Honor Society

Skills

Software and Tools	AWS, Angular, Django, Docker, Flask, Git, MS SQL Server, MongoDB, MySQL, .NET, Percona Toolkit, RabbitMQ, React, Redis, SQLAlchemy
Miscellaneous	software design, micro-services, NLP, performance and scalability testing, REST API, ML system, Agile development
Programming Languages	Python, Java, C#, C/C++, TypeScript, Haskell

Work Experience

Software Engineer II   *Nov 2021 - Present*

Klaviyo, Inc.   *Boston, MA*

- Designed and implemented full-stack SMS AI feature "Suggested Response" using NLP
- Lead OKRs on cross-team database migration with minimal downtime and maximal data integrity
- Lead OKRs on building a ML model registry and serving framework to support high-throughput and low-latency inference tasks
- Lead departmental performance and scalability tests on the system in preparation for peak e-commerce season
- Lead algorithm interviews during software engineer recruitment process
- **Technical Skills:** AWS, Django, Docker, Flask, MySQL, NLP, RabbitMQ, React, SQLAlchemy

Software Engineer I   *Jan 2021 - Oct 2021*

Lytx, Inc.   *San Diego, CA*

- Lead designs and implementation on SMS notification, multi-factor authentication, and CRON report delivery system
- Implemented and maintained web administration features like user management and Email/SMS subscription
- Researched and implemented a plan to migrate to AWS by architecting database storage strategies, CI/CD, and system refactoring
- **Technical Skills:** AWS, Angular, MS SQL Server, MongoDB, .NET, RabbitMQ, Redis

Software Engineer Intern   *June 2020 - Jan 2021*

Lytx, Inc.   *San Diego, CA*

- Designed and implemented SMS notification and customized subscription
- Migrated legacy full-stack asset management features to new system
- **Technical Skills:** AWS, Angular, MS SQL Server, MongoDB, .NET, RabbitMQ, Redis

Computer Science and Engineering Tutor   *Sept 2019 - March 2020*

Univeristy of California, San Diego   *San Diego, CA*

- Held office hours and debugging sessions for undergraduate students on data structure and object-oriented design assignments
- Evaluated undergraduate students' Software Engineering project design and documentation
- **Technical Skills:** React, C, C++, Java

Research Assistant   *June 2019 - Sept 2019*

Univeristy of California, San Diego   *San Diego, CA*

- Implemented network messaging using UDP socket to stream sensor data to Mixed Reality glasses (MS HoloLens)
- Designed and implemented ray casting features in Unity to improve alignment with reality
- **Technical Skills:** Mixed Reality, Unity

Data Engineer Intern   *Aug 2018 - Sept 2018*

Koolearn Technology   *Beijing, China*

- Designed and implemented automated reporting job for BI analysis
- **Technical Skills:** Linux, MySQL, Python

Provisional Patents

A Method To Implicitly Associate Customer Intents To Pre-Written Responses   *July 2022*

Klaviyo, Inc.   *Boston, MA*

A Method To Implicitly Annotate Textual Data In Conversational Messaging Settings   *June 2022*

Klaviyo, Inc.   *Boston, MA*