Suyang Chen

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EDUCATION:

The City College of New York, CUNY   **Aug 2024** - **Expected Dec 2025**
Master of Science in Computer Science

University of Arizona   **Aug 2018** - **May 2021**
Bachelor of Science in Computer Science, Minor in Mathematics
- Honors: Honorable Mention for Fall 2018, Dean's List with Distinction for Spring 2019, Academic Year Highest Academic Distinction in 2019.

SKILLS:

- **Programming languages:** Python, Java, C, Typescript, C#.
- **Technologies & Tools**: Git, SQL, Unix, AWS, RESTful API, gRPC, Kafka, Vert.x, Dropwizard, Hazelcast, ZooKeeper, React, Redux, Webpack, OpenFin, Splunk, Kibana, Spring.

ACTIVITIES:

- ACM-ICPC Rocky Mountain Regional Competition – Oct 2019.
- Hack Arizona – Jan 2019 & Jan 2020.
- Open-source contributions to projects including coala, libvirt, and visma.
- International Volunteer Team Lead – Thailand, 2018.

WORK EXPERIENCE:

Goldman Sachs   **Dec 2021** - **Jul 2024**
Software Engineer   Dallas, Texas
- Developed high-performance, event-driven backend services on GS cloud using Java and Vert.x, integrated with Kafka to enhance data throughput and reliability.
- Designed and implemented trading platforms for both web and desktop environments, leveraging TypeScript and C#, and frameworks including React and WPF .NET, incorporating the MVVM design pattern and event-driven architecture to ensure robustness and high performance.
- Engineered a high-availability distributed in-memory cache system using Hazelcast and ZooKeeper, enabling fast data access and real-time data updates across all trading platforms. Distributed the cache across multiple cluster nodes to improve performance and availability.
- Oversaw all phases of the SDLC from requirement analysis and risk management to UAT, production releases, and support, delivering 15+ projects on time.

Atlas Connect, LLC   **Aug 2018** - **Dec 2021**
Full Stack Developer (Cofounder)   Tucson, Arizona
- Designed and implemented an innovative iOS application using SwiftUI with the MVVM design pattern, improving user engagement by 20%.
- Built and deployed a high-capacity Python RESTful API server with Flask, optimized data handling with Redis integration.

PROJECT EXPERIENCE:

Compiler   **Jan 2021**- **May 2021**
- Developed a lightweight compiler using a recursive descent parser for syntax parsing, semantic checking, abstract syntax tree(AST) generation, and assembly instruction generation.
- Designed error-handling and debugging mechanisms to provide clear compile-time feedback, enhancing developer usability and troubleshooting.

Automated 3D BIM Construction from 2D Engineering Drawings   **Jan 2025** - **Present**
- Designed end-to-end automation pipeline to preprocess 2D engineering drawings, extracting engineering legends and reducing manual effort by 80%.
- Customized a YOLOv8-based object detection model to accurately identify tiny legend element from over 1,000 engineering drawings, achieving extraction accuracy above 80%.
- Streamlined 3D BIM model construction, converted 2D engineering drawings to 3D BIM model.