# Yuchen Kuang

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## EDUCATION

**NORTHEASTERN UNIVERSITY**, Portland, United State          Sept 2023 - Present
*Master of Science in Computer Science*
Courses: Intensive Foundations of CS (**python**), Discrete Structures, Object-Oriented Design in Java, Data Structure& Algorithm and their Application within computer system **(C programming)**, Web Development

**SHENZHEN UNIVERSITY**, Shenzhen, China          Sept 2017 - Jun 2022
*Bachelor of Architecture(5-year system)*
Honor: First Prize for Cultural and Sports Scholarships (1%), Outstanding Undergraduate Graduation Design (5%)

## PROFESSIONAL SKILLS

- Programming Languages: **Python**, SQL, Java, **C, C#**, JavaScript, HTML5, CSS, SCSS, shell
- Frameworks: React.js, Node.js, Django, Angular.js, Express.js, Vue.js, SpringBoot
- Other Tools: Git, Git hub, **MongoDB**, **MySQL**, Restful API

## PROJECTS

**Automated Tenant Management Portal System**
- Developed a micro-SaaS application using **Python** for AI-based tenant management.
- Implemented subscription management with Stripe and **MongoDB**.
- Integrated data components into applications to enhance functionality through analytics and forecasting.

**SkillUpIt E-commerce Web Development**
- Participated in planning and executing the "Limited Time Discount & Buy Now" business feature with **Java**.
- Enhanced test coverage from 60% to 85% by developing **unit tests** with **JUnit** and **Mockito**.
- Improved throughput tenfold from thousands to tens of thousands QPS by integrating Redis and RocketMQ into the **MySQL** master-slave architecture for improved data flow.
- Implemented **cache** preheating for active promotions with Redis and Lua scripts.

**Hotel Booking Application Development**
- Established a test **database** with predictable data for end-to-end automated testing of the Application.
- Developed search, sorting and filtering functions to easily discover the ideal hotel accommodation for users.
- Implemented comprehensive hotel status management and form processing to add, edit, and view hotel listings, operating via **MongoDB**.

**Real Estate Application Development**
- Created a front-end project template using React.js and Tailwind, connecting it to the database.
- Implemented a test API routing and created a middleware and a function to handle possible errors.
- Enhanced privacy and security by creating a web proxy server with **Python**.

**TCP Client-server Architecture**
- Implemented TCP sockets using the sockets API in **C**.
- Developed a server to listen for and accept incoming TCP connections and a client to initiate communication.
- Designed the server to echo back received data from clients.

## PROFESSIONAL EXPERIENCE

**Shenzhen High-Speed Consultant Co.**, Shenzhen, China          Jul 2022 – Apr 2023
*Product Development Engineer*
- Completed the online functional testing of the product related to Cloud-base Smart Site.
- Wrote the product document of Smart Site and realized the functional testing of related applications.

**Ben Yuan Intelligent Technology Co.**, Shenzhen, China          May 2022- Jul 2022
*Product Development Assistant (Internship)*
- Documented test data and facilitated cross-functional team communication to optimize product features.
- Assisted in the development online functionality tests and the development of new products.

## HONOR AND AWARDS

- First Prize for Cultural and Sports Scholarships (1%), Outstanding Undergraduate Graduation Design (5%)