

# Keming Xing

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## Education Background

<b>Northeastern University</b> , Boston, MA	<b>May 2026</b>
Master of Electrical and Computer Engineering, Concentration in Computer Vision, Machine Learning, and Algorithms	
<b>Relevant Courses:</b> Algorithms & Complexity Analysis, Data Visualization, Advanced Machine Learning	
<b>Wenzhou Kean University</b> , Wenzhou, China	<b>June 2024</b>
Bachelor of Science in Computer Science and Technology, Minor in Math and Applied Math	
<b>Relevant Courses:</b> Data Structures, Operating Systems, Software Engineering, Advanced Java Programming	

## Technical Skills

<b>Programming Languages:</b> Java, Python, C, C++, C#, TypeScript
<b>Backend &amp; System Development:</b> Node.js, Fastify, RESTful API design, JWT authentication, RBAC, MySQL, Prisma ORM
<b>Tools:</b> Dash, Plotly, Pandas, NumPy, Parquet, Postman (API testing), Git, Cloud deployment (Vercel, Render)

## Professional Experience

<b>Kean-University</b> , Wenzhou, China	<b>March 2021-May 2024</b>
<i>Research and Teaching Assistant, College of Science, Mathematics and Technology</i>	
● Assisted professors in Java and Python programming courses, supporting algorithm implementation, data structures, and basic software design concepts through hands-on coding exercises.	
● Helped develop and maintain course-related programming assignments and example code, debugging student submissions and improving instructional code quality.	
● Collaborated with faculty on Python-based research prototypes, contributing to code implementation, testing, and documentation in a team-based academic environment.	
<b>Beijing DXC Technology</b> , Wenzhou, China	<b>July 2021-September 2021</b>
<i>Software Engineering Intern (Backend Testing Focus)</i>	
● Wrote test scripts and test cases to validate backend business logic and core system functionality, ensuring correctness and stability during development.	
● Used Postman to test RESTful APIs, verifying request/response behavior, edge cases, and error handling, and collaborated with developers to debug and validate fixes.	

## Academic Projects

<b>Enterprise Attendance Management System</b>	<b>December 2025-January 2026</b>
● Designed and built a production-ready full-stack enterprise attendance system with frontend – backend separation, supporting clock-in/out, approval workflows, and statistical reporting.	
● Implemented a RESTful backend service using Fastify, TypeScript, and Prisma, featuring layered architecture, RBAC with JWT, and multi-organization data isolation.	
● Designed and managed relational data models in MySQL, enabling auditable approval processes, role-based permissions, and scalable business rule configuration; deployed via Vercel and Render.	
<b>BRFSS Interactive Data Dashboard</b>	<b>October 2025-December 2025</b>
● Built a production-ready web-based interactive dashboard using Python and Dash, enabling users to explore large-scale datasets through dynamic filters, real-time updates, and responsive visual components.	
● Designed a modular backend architecture separating data loading, processing, aggregation, and API-style callback interfaces, efficiently querying preprocessed Parquet data and updating multiple views in real time.	
<b>Correction of Pen-Holding Posture Using Computer Vision</b>	<b>April 2024-June 2024</b>
● Designed an end-to-end computer vision system with MediaPipe and Random Forest, achieving 92% real-time accuracy in posture detection.	
● Optimized frame capture and processing pipeline, improving responsiveness by 35% and enabling instant corrective feedback.	