XINHANG YANG

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Education

The City College of New York (CUNY) **Expected Graduation: Fall 2027**
Bachelor of Science in Computer Science; GPA 3.8 *New York, NY*

Relevant Coursework

- Data Structures
- Algorithms
- Computer Architecture
- Database Systems
- Operating Systems
- Web Programming
- Discrete Math
- Software Engineering

Externship

Amazon Artificial Intelligence Externship **Summer 2024**
AI Extern

- Completed an intensive 6-week program focused on Machine Learning fundamentals and earned certificate.

Technical Skills

Languages: Python, C++, JavaScript, MIPS Assembly, SQL (MySQL)
Developer Tools: VS Code, Git, Google Cloud Platform (Cloud Run, Functions), XAMPP, ModelSim
Technologies/Frameworks: Linux/Bash, CI/CD (Cloud Build), RESTful API, SIMD Vectorization, Agile

Projects

Paw Finder - Lost-and-Found Pets Platform | *PHP, MySQL, Apache, XAMPP*

- Engineered full-stack architecture and modeled relational databases for Users and Pets.
- Implemented secure authentication with hashed passwords, session cookies, and real-time validation.
- Built role-based UI where management features only appear for pet owners to prevent unauthorized edits.

Sales-Tax Recalculator Micro-service | *Python, Google Cloud Run*

- Deployed serverless API with endpoints for receipt processing and dynamic tax-rate POSTing.
- Optimized container performance achieving cold starts $< 2s$ and recomputation in $< 100ms$.
- Maintained 95% test coverage using PyTest to ensure API reliability and accuracy.

Single-Cycle MIPS CPU Design | *VHDL, ModelSim*

- Designed a 32-bit single-cycle CPU in VHDL with support for Jump and ADDI instructions.
- Verified hardware logic via ModelSim testbenches, analyzing PC, ALU, and memory signals.
- Authored a comprehensive technical report and live demo, contributing to 60% of course lab grade.

Experience

Medical Assistant & IT Support Specialist **Since: 2023**
Pediatric & Internal Medicine Clinic *New York, NY*

- Managed and secured Electronic Medical Record (EMR) systems, ensuring data integrity and strict HIPAA compliance for thousands of pediatric and adult patient files.
- Served as the primary technical contact, troubleshooting clinic hardware, software issues, and networking to ensure zero downtime for daily medical operations.
- Optimized patient intake and scheduling workflows by implementing digital organizational tools, improving administrative processing efficiency by 15%.
- Collaborated with medical professionals in high-pressure environments, managing multi-departmental communications and insurance data validation.