Qichang Meng

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OBJECTIVE Seeking a full-time software-related position starting Dec 2024. Open to relocation

EDUCATION

University of Illinois at Urbana-Champaign IL
Master of Computer Science, Expected in Dec 2024, GPA: 4.16/4.00

The Ohio State University Columbus, OH
Ph.D. in Chemical Engineering, specialization in Computation and Machine Learning
GPA: 3.81/4.00 Expected in Dec 2024

Carnegie Mellon University Pittsburgh, PA
MS in Chemical Engineering, 2013, Major GPA: 3.62/4.00

Shandong University Jinan, China
BS in Chemistry, BA in Accounting, 2011, Overall GPA: 81.4/100

SKILLS

Coding: Java, C/C++, Python, TypeScript/JavaScript, PHP, HTML, CSS, Bash, Matlab
Technologies: Linux, Git, MySQL, PostgreSQL, Redis, Angular, React, PyTorch
AWS, Hadoop, Spark, Kubernetes, Ansible, Docker, Maven, Tableau

WORK EXPERIENCE

Motorola Solutions, Champaign, IL
Software Engineer Intern, May 2024 – Present
- Developed an AI-assisted chatbot for instant customer technical support
- Built a fully responsive website from scratch using Angular
- Implemented user login and utilized APIs to retrieve authentication levels and product access, selectively feeding information to the AI model for information security.
- Containerized the application with Docker; optimized scalability using Kubernetes

OCLC, Columbus, OH
Data Platform Software Engineer Intern, Summer 2023
- Developed Python and Ansible scripts for data migration from MySQL to PostgreSQL improving transfer efficiency by 35%
- Created Python scripts for automated file management across 160+ global servers
- Managed AWS load balancer for EC2 instances and data storage in Aurora

Sage Automation, Beaumont, TX
Programming Engineer, 2014 – 2017
- Engineered Distributed Control Systems in C/C++ for robots valued up to 3.7M
- Designed Python-based interfaces for user interaction
- Implemented socket programming for ethernet communications and developed a remote-control platform for field-to-office connectivity

RESEARCH EXPERIENCE

Research Associate, PhD program, 2017 – Present
- Developed computation networks for clean energy using C++
- Applied machine learning for comprehensive big data analysis
- Analyzed 4000+ frameworks in energy systems with residual neural network
- Implemented Bayesian optimization for non-linear models and uncertainty analysis

PROJECT

Content-based Job Recommendation Web Portal
- Created Java servlets with APIs for dynamic HTTP requests handling
- Implemented content-based algorithms for accurate job recommendations

Android City Management App Development
- Developed the app in Java, integrating restaurant, weather, and map via APIs
- Implemented user authentication, UI enhancement, and testing using Espresso