

PINGCHUAN(Molly) MA

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EDUCATION

BOWIE STATE UNIVERSITY(HBCU) , MD, U.S.	May 2020
M.S. in Computer Science	GPA: 4.0/4.0
CHINESE ACADEMY OF SCIENCES , China	June 2012
M.S. in Management Science & Engineering	GPA: 3.7/4.0
XI'AN UNIVERSITY OF SCIENCE AND TECHNOLOGY , China	June 2008
B.S. in Accounting	GPA: 3.6/4.0

Courses Completed:

Data Structure and Algorithms, Object Paradigm, Operating System, Distributed System, Computer Organization and Architecture, Database Design, Machine Learning, Artificial Intelligence, Cyber Security, Computer Network

PROFESSIONAL EXPERIENCE

Bowie State University , MD	<i>Graduate Assistant</i>	2019.8 – current
<ul style="list-style-type: none">• Work as a research assistant in Computer Science Department.• Explored on AWS education and enable faculties and students to move their research or teaching endeavors to the cloud.• Helped with event organizations and management, Cyber Day event and workshops.		
Beaumont Software, Inc. , Beijing	<i>Software Engineer Intern</i>	
<ul style="list-style-type: none">• Assisted in the design and development of user information solutions and Internet applications for a medical company.• Provided user requirements analysis, design and programming support for enhancement of a widely used web application.• Wrote test cases which is designated as over 85% code coverage and troubleshoot interface and database issue.• Introduced methodologies and best practices that enhanced product definition, release processes and customization of applications to user needs.• Participated in sales presentations due to ability to translate user needs into easy-to-understand software solutions.• Worked closely with product managers in a scrum team and completed the project milestone during internship.		

PROJECTS

Federal Government U.S. Army Project	On-going
<ul style="list-style-type: none">• Assisted in developing a red team vetting tool to provide a consistent review process for untrusted commercial and open source binaries and source code.• Built a network intrusion detector, a predictive model capable of distinguishing between intrusions and normal connections based on a wide variety of intrusions simulated in a military network environment.• Trained deep learning models on BGP anomaly detection using Amazon ML service.• Built Vulnerability State Machine with lambda functions on AWS.• Built web pages to create a dashboard for anomaly analysis and visualization.	
Tiny Ecommerce Site - Full Stack Project	Sep 2018
<ul style="list-style-type: none">• Designed and built a shopping website using frameworks and technologies, including JavaScript, Bootstrap, MongoDB, and React for frontend development.• Maintained and persisted all public product data in Amazon S3 and implemented shopping cart feature which kept cart data in browser's local storage.• Implemented user authentication and third-party login/registration features by Facebook, Google and Twitter, read/write user data to PostgreSQL database.• Improved the client-side performance by applying asynchronous calls and lazy loading all thumbnail images.	
Bank Management System - Course Project	
<ul style="list-style-type: none">• Developed a bank transaction processing and management system based on OOD principles to perform bank tasks and serve customers in banking environment.• Provided the access to customers to create accounts, deposit/withdraw cash from accounts.	

SKILLS

Languages: Python, Java, C++, JavaScript, SQL, HTML, CSS, Shell

Database and Framework: MySQL, MongoDB, Git, React, MapReduce, Bootstrap, Express, EJS, AWS