

Cindy Tao

Software Engineer/Developer

SKILLS

Programming Languages	Java, Python, C++, C, C#
Database Ecosystem	MySQL, MongoDB, NEO4J
Tools and Technologies	Amazon Web Services (AWS), Pandas, Numpy, Microsoft Azure, Word, Excel, PowerPoint
Certifications	AWS Certified Cloud Practitioner, Microsoft Office Specialist Excel

WORK EXPERIENCES

Software Engineer ATPCO <i>JavaScript, Java, HTML/CSS, TypeScript, SQL, Python, Spring Boot, AWS</i>	Jan 2023 — Present Dulles, VA
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- Developed and maintained scalable applications on AWS, enabling ATPCO's clients to efficiently access industry data applications and react to market changes in a timely manner.
- Collaborated with an Agile development team to design, develop, test, implement, and support full-stack technical solutions, enhancing ATPCO's service offerings and capabilities.
- Contributed to the development of industry standards for airline distribution and end-to-end technology solutions at ATPCO, impacting 500+ airlines, global distribution systems, and technology companies.

Information Technology Intern PPL Corporation <i>C#, Azure Logic Apps, Azure Function Apps</i>	May 2022 — Aug 2022 Allentown, PA
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- Streamlined operational efficiency by automating a process to remove unnecessary license access from inactive users, resulting in significant cost savings
- Engineered a CI/CD pipeline using a bicep template, enabling seamless deployment of automation as infrastructure as code and improving project scalability
- Authored a comprehensive documentation series on utilizing various Microsoft Azure services, providing valuable guidance for future interns and facilitating knowledge transfer

Software Tool Intern Insulet Corporation <i>C#</i>	Nov 2021 — Jan 2022 Acton, MA
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- Skillfully designed, tested, and documented 10+ functions for new and existing software tools, enhancing the testing capabilities of Insulet products
- Diligently debugged and resolved software defects using JUnit, collaborated closely with fellow engineers, and actively participated in weekly code reviews to ensure high-quality code
- Gathered comprehensive requirements from stakeholders for new tool enhancements, facilitating effective communication and aligning project goals with stakeholder needs

PROJECTS

Search Engine, BackslashR <i>Java, REACT, Node.js, HTML/CSS, EC2</i>	Sep 2022 — Dec 2022
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- Engineered a distributed search engine from scratch, utilizing Java for the back-end to develop the web server, key-value store, analytic engine, crawler, indexer, and page rank components
- Achieved fast search results by processing over 200,000 pages and returning results to users in under 10 seconds
- Deployed the search engine securely on the cloud with an encrypted certificate, ensuring a safe connection for website visitors

Amazon SPARC (Side Projects for Advancement, Refinement, and Collaboration) <i>Python, Amazon S3, Amazon Cloud Formation, Amazon Lambda</i>	May 2022 — Aug 2022
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- Collaborated with an Amazon mentor and three peers to develop an automation solution for generating daily, aggregated, cross-account, multi-region AWS Backup and Cost reports for resources with user-defined tags
- Leveraged 10+ Amazon Web Services and the AWS Software Development Kit to create the automation, demonstrating proficiency in a wide range of cloud technologies
- Crafted a high-level AWS architecture diagram with two stacks, effectively communicating the design, deployment, and topology of the application to stakeholders

EDUCATION

Master of Computer and Information Technology , <i>University of Pennsylvania</i> GPA 3.90	Aug 2020 — Dec 2022
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Bachelor of Science in Mechanical Engineering , <i>The Pennsylvania State University</i> GPA 3.65	Aug 2011 — Dec 2015
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