

Tyr Zong

U.S. Citizen | Philadelphia PA

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EDUCATION

Drexel University

Philadelphia, PA

- Bachelor of Science (BS) in Computer Science

Drexel University

Philadelphia, PA

- Master of Science (MS) in Software Engineering

Expected graduation: June 2024

EMPLOYMENT

Software Engineer, Full-Time

SAP Labs, Palo Alto, CA

June 2022 – Apr 2023

SAP MultiCloud Solutions Engineering and Architecture

- Designed and implemented automated data pipelines, streamlining manual data processing procedures and reducing processing time by 75%.
- Leveraged BigQuery, KQL (Kusto Query Language), and SQL to efficiently extract and ingest raw carbon emission data from diverse sources into the data processing pipeline.
- Utilized Python libraries and frameworks, such as pandas and NumPy, to manipulate and transform raw data into a structured format suitable for analysis and visualization.
- Used agile practices to work on a development team spanning across 3 time zones.

Software Engineer, Intern

SAP, Newtown Square, PA

Apr 2021 – June 2022

SAP d-Shop

- Developed and implemented Bluetooth contact tracing solutions using Raspberry Pi and ESP32 microcontrollers, written in Python and C++.
- Organized and facilitated interactive workshops and learning sessions that introduced employees to cutting-edge technologies, fostering their curiosity, skill development, and engagement with emerging trends
- Secured first place at SAP Hacking the Future of Workplace Hackathon, representing the d-Shop. Developed an innovative AR/VR solution, showcasing exceptional problem-solving skills and teamwork.
- Developed highly effective microsites using HTML, JavaScript, and CSS that garnered praise from customers, resulting in heightened interest and productive dialogues within SAP account teams.

Software Engineer, Intern

SAP, Newtown Square, PA

Apr 2019 – Apr 2021

SAP STAR Program

- Conducted sentiment analysis on large datasets, utilizing natural language processing (NLP) techniques and machine learning algorithms to extract and analyze sentiment information.
- Developed a custom URL shortener using Java, MySQL, and Bootstrap, providing users with a simplified and user-friendly interface to shorten and manage long URLs efficiently.
- Designed and developed an SAP Intelligent Robotic Process Automation (RPA) bot capable of automating SAP Fiori processes, streamlining workflows and improving efficiency.

Linux System Administrator

University of Pennsylvania, Philadelphia, PA

Apr 2018 – Apr 2019

- Translated and recreated an existing Perl script in Python to address logging errors, resulting in improved log file management, and eliminated 100% of existing errors with the Perl script.
- Developed Ansible playbooks to automate the configuration and setup of remote access on servers, enabling efficient and secure remote administration.
- Managed and maintained all the Linux desktop and server infrastructure within the University of Pennsylvania School of Engineering and Applied Science.

ADDITIONAL EXPERIENCE

Leadership

- **SAP STAR Recruitment Team, Lead** - Involved in the recruitment process from running booths at career fairs to conducting technical interviews with candidates.
- **Community Coding Camp, Founder & Instructor** - Founded Community Coding Camp, delivering after-school coding classes to engage and educate youths interested in technology. Developed a 10-week curriculum focusing on teaching fundamental programming concepts for teens.

SKILLS

Programming

Python, Java, JavaScript, C, C++, Swift, Git

Back-End

SAP HANA, SAP Business Technology Platform, Firebase, MySQL

Front-End

React.js, React-Native, SAPUI5, SwiftUI, HTML, CSS, Fiori