

Kaung Htoo Zan

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EDUCATION

Drexel University

Bachelor of Science in Computer Science - GPA: 3.88/4.00 (*Magna Cum Laude*)

Philadelphia, PA

September 2021 - June 2024

College of Southern Nevada (CSN)

Associate of Science in Physical Science - GPA: 3.84/4.00 (*Magna Cum Laude*)

Las Vegas, NV

August 2019 - May 2021

WORK EXPERIENCE

Bentley Systems

Associate Software Engineer (ProjectWise Team)

Philadelphia, PA

September 2024 - Present

- Developed mock unit tests for a **WPF Wrapper class**, improving reliability in URL formatting
- Enhanced SQL code in **C++** using parameterized queries, preventing SQL injection and strengthening security

Susquehanna International Group (SIG)

Software Development Engineering Intern (Middleware Team)

Bala Cynwyd, PA

March 2023 - April 2024

- Deployed a **C++** wrapper in **C#** via **P/Invoke**, expanding the library for servers monitoring in .NET
- **Automated benchmarking system**, capturing 50+ different metrics to database for performance visibility
- Upgraded file monitoring system using **C++**, significantly boosted search capabilities for 10,000+ servers daily
- Improved **Python automated testsuite** efficiency by 40%, through debugging and automating manual tests
- Developed a **unit mock test suite in C#** comprising 100+ tests, enhancing stability in post-deployment phases

Bentley Systems

Software Engineering Intern (iTwin Team)

Philadelphia, PA

March 2022 - September 2022

- Automated version bump to dependencies using **Bash** and **regex** via **MS Azure**, optimizing DevOps workflows
- Identified and resolved 50+ code vulnerabilities in **Python** and **Node.js** discovered through GitHub codeQL scans
- Reduced **regression testing** time to 5 minutes in CI/CD by employing **multi-threading** for versioned testing

Academic Success Center (CSN)

C++ and Calculus Teaching Assistant

Las Vegas, NV

January 2021 - August 2021

- Provided assistance 50+ students per week with **C++** and **Data Structure** in **Linux** environment
- Assisted 2 professors in helping 100+ students in learning limits, differential, integral, and multivariable calculus

SELECTED PROJECTS

Bloomberg 13G Data Parser

Developer/ Data Engineer

Philadelphia, PA

October 2023 - February 2024

- Deploy a **Machine Learning** model for parsing complex 13G documents with high accuracy
- Fabricated a **Python script** to download 13GB files and employ regex parsing to generate Y labels for the model

Bank and Survey System ([link](#))

BackEnd Developer

Philadelphia, PA

March 2023

- Developed a Java-based Bank system with 200+ unit tests integrated into a GitLab CI/CD pipeline
- Applied 7 Design Patterns, including Factory, to architect and serialize the users' data in a Survey system

RunRouteFun for Runners (Hackathon winner)([link](#))

Developer + Manager

Philadelphia, PA

April 2022

- Joined 3 partners to start a running app, aiming to generate creative polygonal routes using **Google maps API**
- Led the team via **Agile**, ensuring timely delivery, and Developed webpages utilizing HTML5, CSS3, and JavaScript

TECHNICAL SKILLS

Technical Skills: C/C++, Python, Java, C#, HTML, CSS3, JavaScript, TypeScript, Bash, SQL

Tools: Git, gRPC, Node.js, Linux Server, Perforce, PostgreSQL, ReactTS, Robot Framework

Concepts: Algorithms, OOP, Software Testing, DevOps, Machine Learning, Networking, Web/App Dev

Interests: Strategic games (especially Chess), Competitive Programming, Poker

SELECTED AWARDS

Regional International Collegiate Programming Contest (ICPC) Contestant, 2021-2022

Most Creative Hack winner at Philly Codefest, awarded \$1000, 2022

Annual Merit Scholarship for Academic Excellence, 2021-2024