Naron Chen

✈ naron.chen1@gmail.com | 👤 naronchen.github.io | 🔗 linkedin.com/in/naron | ⓞ github.com/naronchen

Skills

Languages	TypeScript, C#, C++, Python, Java, SQL, Go
Frameworks	.NET, Node, React, Git, Angular
DevOps & Cloud	Azure Pipelines, GitHub Actions, Docker
	AWS Certified Developer - Associate; 🔗 certification link

Work Experience

Software Engineer I - Bentley Systems — Philadelphia, Aug 2025 - Present

– Delivered agreement-workflow features across front end and .NET services

– Migrated the Selenium suite to Playwright, created full workflow coverage, and integrated into CI/CD

– Improved User Management platform through domain-validation, data-sanitization and authorization feedback

Rotational Software Engineer - Bentley Systems — Philadelphia, Jan 2024 – Aug 2025

ITwin Microservices Team (Full Stack Web) — Jan 2025 – Aug 2025

– Automated app insight deploy via **yaml pipeline**, slashing manual rollout steps by 15%

– Refactored whole **Azure blob** interactions and retry mechanism, reducing 60% nested retries

– Designed a dynamic progress loader component in **React** with redux state machines for clean UI updates

– Integrated **Redis-backed** job queue with parallel processing in agent framework cutting over 50% wait time

Schema Management Team (Infra & Backend) — Aug 2024 – Jan 2025

– Coded a comprehensive ratio unit conversion framework in **C++** with bidirectional transformation pathways

– Enhanced the **C++** ECSQL engine with support for inline table literals, integrating into the generation layer to emit valid **SQLite** statements and database's execution path to handle complicated nested queries

OpenFlows WaterGEM Team (Full Stack Desktop) — Jan 2024 – Aug 2024

– Improved **50%** map tile rendering throughput by integrating the Bing Maps API and implementing a thread-pool based multi-threaded tile-fetch-and-draw **.NET** engine with dynamic window alignment

– Ensured file-loading pipeline backward compatibility to support 10+ legacy schema versions

Front-End Software Engineer - Superstars Inc — New York, Aug 2023 - Jan 2024

– Developed a dynamic profile page in Angular, attracting over 1000 users

– Improved UI rendering speed by 30% through various optimized components and caching

Algorithm Researcher - University of Richmond — Richmond, May 2021 - July 2021

– Established **C++** based testing platform for 100+ hospitals on liver allocation algorithm experiments

– Raised 50% system efficiency by developing a min-cost max-flow algorithm with C++

Education

University of Richmond, Bachelor's Degree in CS — May 2023

– Honors: Presidential Scholar, Dean's List, ACM vice president

University of Edinburgh, School of Informatics(Study Abroad) — Jan 2022 - May 2022

– Google Developer Club Member

Other Activities

Philly Codefest Hackathon 2025, 3rd place — April 2025

out of 80+ teams | SafeGlow: ML-powered A* route-planning app | ⓞ project link

Philly Codefest Hackathon 2024, 3rd place — April 2024

out of 60+ teams | TouchGrass: swiping group-event app with classification alg | ⓞ project link

Teaching Volunteer - Codepath & Building 21 — Jan 2024 – Present

Help first-generation and low-income students interested in tech | 🔗 certifications link