


NARON CHEN

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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

Rotational Software Engineer - Bentley Systems Philadelphia, Jan 2024 – Present

ITwin Microservices Team (Full Stack Web) Jan 2025 – Present

- Built rate limiter in **.NET** using sliding window algorithm, handling 100+ API requests/sec
- Engineered a download manager in **Typescript**, unified download logic, with optional cache skipping
- Automated app insight deploy via **yaml pipeline**, slashing manual rollout steps by 15%
- Introduced action filters in **C#** for authentication & internal routing boosting controller throughput by 10%
- 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](#)