

NARON CHEN

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SKILLS

Languages	TypeScript, C#, C++, Python, Java, SQL, Go
Frameworks	.NET, Node, React, Git, Angular
Build & Packaging	CMake, npm, pnpm
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
<ul style="list-style-type: none">Built rate limiter in .NET using sliding window algorithm, handling 100+ API requests/secEngineered a download manager in Typescript, unified download logic, with optional cache skippingAutomated 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 retriesDesigned a dynamic progress loader component in React with redux state machines for clean UI updates	
Schema Management Team (Infra & Backend)	Aug 2024 – Jan 2025
<ul style="list-style-type: none">Coded a comprehensive ratio unit conversion framework in C++ with bidirectional transformation pathwaysEnhanced the C++ ECSQL engine with support for IN-list expressions and inline table literals, integrating into the SQL-generation layer to emit valid SQLite statements and extending database's execution path to correctly handle arbitrarily complicated nested queries	
OpenFlows WaterGEM Team (Full Stack Desktop)	Jan 2024 – Aug 2024
<ul style="list-style-type: none">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 alignmentEnsured file-loading pipeline backward compatibility to support 10+ legacy schema versions	
Front-End Software Engineer - Superstars Inc	New York, Aug 2023 - Jan 2024
<ul style="list-style-type: none">Developed a dynamic profile page in Angular, attracting over 1000 usersImproved UI rendering speed by 30% through various optimized components and caching	
Algorithm Researcher - University of Richmond	Richmond, May 2021 - July 2021
<ul style="list-style-type: none">Established C++ based testing platform for 100+ hospitals on liver allocation algorithm experimentsRaised 50% system efficiency by developing a min-cost max-flow algorithm with C++	

EDUCATION

University of Richmond, Richmond VA	May 2023
<ul style="list-style-type: none">Computer Science Major, Major GPA: 3.71Honors: Presidential Scholar, Dean's List, ACM vice president	
University of Edinburgh, School of Informatics (study abroad)	Jan 2022 - May 2022

OTHER ACTIVITIES

Codepath Teaching Volunteer	Jan 2024 – Present
Helping first-generation and low-income students interested in tech certifications link	
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	