

# 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; <a href="#">certification link</a>

## WORK EXPERIENCE

<b>Rotational Software Engineer - Bentley Systems</b>	Philadelphia, Jan 2024 – Present
ITwin Microservices Team (Full Stack Web)	Jan 2025 – Present
<ul style="list-style-type: none"><li>Built rate limiter in <b>.NET</b> using sliding window algorithm, handling 100+ API requests/sec</li><li>Engineered a download manager in <b>Typescript</b>, unified download logic, with optional cache skipping</li><li>Automated app insight deploy via <b>yaml pipeline</b>, slashing manual rollout steps by 15%</li><li>Introduced action filters in <b>C#</b> for authentication &amp; internal routing boosting controller throughput by 10%</li><li>Refactored whole <b>Azure blob</b> interactions and retry mechanism, reducing 60% nested retries</li><li>Designed a dynamic progress loader component in <b>React</b> with redux state machines for clean UI updates</li></ul>	
Schema Management Team (Infra & Backend)	Aug 2024 – Jan 2025
<ul style="list-style-type: none"><li>Coded a comprehensive ratio unit conversion framework in <b>C++</b> with bidirectional transformation pathways</li><li>Enhanced 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</li></ul>	
OpenFlows WaterGEM Team (Full Stack Desktop)	Jan 2024 – Aug 2024
<ul style="list-style-type: none"><li>Improved <b>50%</b> map tile rendering throughput by integrating the Bing Maps API and implementing a thread-pool based multi-threaded tile-fetch-and-draw <b>.NET</b> engine with dynamic window alignment</li><li>Ensured file-loading pipeline backward compatibility to support 10+ legacy schema versions</li></ul>	
<b>Front-End Software Engineer - Superstars Inc</b>	New York, Aug 2023 - Jan 2024
<ul style="list-style-type: none"><li>Developed a dynamic profile page in Angular, attracting over 1000 users</li><li>Improved UI rendering speed by 30% through various optimized components and caching</li></ul>	
<b>Algorithm Researcher - University of Richmond</b>	Richmond, May 2021 - July 2021
<ul style="list-style-type: none"><li>Established <b>C++</b> based testing platform for 100+ hospitals on liver allocation algorithm experiments</li><li>Raised 50% system efficiency by developing a min-cost max-flow algorithm with C++</li></ul>	

## EDUCATION

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

## OTHER ACTIVITIES

<b>Codepath Teaching Volunteer</b>	Jan 2024 – Present
Helping first-generation and low-income students interested in tech   <a href="#">certifications link</a>	
<b>Philly Codefest Hackathon 2025, 3rd place</b>	April 2025
out of 80+ teams   SafeGlow: ML-powered A* route-planning app <a href="#">🔗 project link</a>	
<b>Philly Codefest Hackathon 2024, 3rd place</b>	April 2024
out of 60+ teams   TouchGrass: swiping group-event app with classification alg <a href="#">🔗 project link</a>	