# NARON CHEN

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## SKILLS

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|---|---|
| **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; 𝓢 certification link |

## WORK EXPERIENCE

**Rotational Software Engineer - Bentley Systems** <span style="float:right">Philadelphia, Jan 2024 – Present</span>

ITwin Microservices Team (Full Stack Web) <span style="float:right">Jan 2025 – Present</span>

– Built rate limiter in **.NET**, handling 100+ API requests/sec
– Engineered a download manager in **Typescript**, unified download logic, with optional cache skipping
– Automated app insight deploy via **yaml** on **Azure Pipelines** across regions
– Introduced action filters in **C#** for authentication & internal routing boosting controller throughput
– 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

Schema Management Team (Infra & Backend) <span style="float:right">Aug 2024 – Jan 2025</span>

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

OpenFlows WaterGEM Team (Full Stack Desktop) <span style="float:right">Jan 2024 – Aug 2024</span>

– Improved **50%** map tile rendering throughput by integrating the Bing Maps API and implementing a thread-pool based 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 <span style="float:right">New York, Aug 2023 - Jan 2024</span>

– 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 <span style="float:right">Richmond, May 2021 - July 2021</span>

– 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, CS Major** <span style="float:right">May 2023</span>

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

**University of Edinburgh, School of Informatics** (study abroad) <span style="float:right">Jan 2022 - May 2022</span>

## OTHER ACTIVITIES

**Philly Codefest Hackathon 2025, 3rd place** <span style="float:right">April 2025</span>
out of 80+ teams | SafeGlow: ML-powered A* route-planning app | ⓞ project link

**Philly Codefest Hackathon 2024, 3rd place** <span style="float:right">April 2024</span>
out of 60+ teams | TouchGrass: swiping group-event app with classification alg | ⓞ project link

**Teaching Volunteer - Codepath & Building 21** <span style="float:right">Jan 2024 – Present</span>
Help first-generation and low-income students interested in tech | 𝓢 certifications link