

# NARON CHEN

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## SKILLS

**Languages** JavaScript/TypeScript, C#, C++, Python, Java, SQL  
**Courses** Full Stack Development, Cloud Computing, Machine Learning, Software Testing  
**Frameworks** React.js, Express.js, Node.js, .NET, Git

## WORK EXPERIENCE

**Software Engineer Intern - Bentley Systems** Philadelphia, May 2023 - Aug 2023

- Constructed a robust **C# RESTful API** gateway for streamlined windmill structural testing
- Developed a full-stack event-driven **.NET** application, integrated with **Azure DevOps's** CI/CD tool
- Ensured reliability through comprehensive exception handling, multi-level logging and **XUnit testing**

**Software Engineer Intern - Datasteps Inc** Tokyo, June 2022 - Aug 2022

- Implemented scalable APIs in **Agile** environment to support revenue management engine
- Doubled weekly user activity by refactoring components with **React/Typescript** in company's homepage
- Shortened 15% of engine's response time by monitoring and debugging network performance issues in **Linux**, then created mock client socket and conducted Unit/Integration tests

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

- Established **C++** based testing platform for 100+ hospitals' data on Liver Allocation Simulation
- Raised 50% system efficiency by developing a min-cost max-flow algorithm with linear programming

**Data Analyst Intern - Loopring** Shang Hai, May 2020 - August 2020

- Produced weekly financial report on most recent cryptocurrency market with data analysis tools in R Studio
- Created machine-learning ARIMA model for time series forecasting to be part of company's decision model

## PROJECTS

**Blur** | <https://blur.school/> | **anonymous Q&A forum for students** Oct 2022 - Present

- Deployed on **AWS EC2** instance with reverse proxy server using **NGINX**
- Utilized React/Typescript as front-end, implemented API endpoints with Express.js at back-end
- Enabled user authentication through **OAuth2.0**, set up Cockroach DB & utilized ORM to perform CRUD
- Implemented admin roles and management API, enabling granular permission control

**Chaos Log** | <https://chaoslog.netlify.app/> | **Atomic Habits Tracking App** April 2023 - Present

- Gained 50+ unique active users, handles 1500+ API request weekly along with 150+ Auth Request
- Utilized **React/javascript** as front-end, Supabase's **PostgreSQL** database as back-end
- Enabled secure authorization rules through PostgreSQL's Row Level Security in the database

**Social Sentiment Stock Prediction Model** Jan 2023 - May 2023

- Achieved over 65% accuracy implementing & fine-tuning SVM, KNN and LSTM model
- Performed cleaning, tokenization, feature engineer and sentiment analysis on 4 million tweets

## EDUCATION

**University of Richmond, Richmond VA** May, 2023

- BA in Computer Science, Minor in Data Science & Film Studies
- Cumulative GPA: 3.6, Major GPA: 3.71
- Honors: Presidential Scholar, Dean's List(Fall 2019 - Spring 2023)

**University of Edinburgh, School of Informatics** (study abroad) Jan 2022 - May 2022

## LEADERSHIP ACTIVITIES

**Vice President - Association for Computing Machinery** Jan 2021 - Current

- Built University's ACM website ([acmurichmond.github.io](https://acmurichmond.github.io)) & cs resource website ([www.bestcs.dev](https://www.bestcs.dev))
- Organized/Hosted 6 software development related workshops for on-campus students
- Worked as Scrum Master for a group of 15 people on mental health app dev using **Firebase & Flutter**