

# NARON CHEN

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## 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

## SKILL

**Languages** JavaScript/TypeScript, C#/C++, Python, Java, Linux, SQL, Ruby, R,  $\text{\LaTeX}$

**Courses** Full Stack Development, Database, Machine Learning, Software Testing

**Frameworks** React.js, Express.js, .NET, Git, Ruby on Rails, Flask, XUnit, Jest

## WORK EXPERIENCE

### Software Engineer Intern - Bentley Systems

Philadelphia, May 2023 - Aug 2023

- Constructed a robust C# API gateway for streamlined windmill structural testing
- Developed a full-stack event-driven .NET application with Winforms, integrated as part of enterprise software
- 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 performant API endpoints with Express.js at backend
- 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 for user management

### Chaos Log | <https://chaoslog.netlify.app/> | Atomic Habits Tracking App

April 2023 - Present

- Gained 40+ 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 Supabase authentication and Row Level Security in the backend

### Social Sentiment Stock Prediction Model

Jan 2023 - Present

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

## 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 various software development workshops for on-campus students
- Worked as a Scrum Master in development of student mental health app using Firebase & Flutter