Dev Chechi

+1 732-784-0007 | chechi.d@northeastern.edu | www.github.com/devmchechi | linkedin.com/in/devmchechi

EDUCATION

Northeastern University - Khoury College of Computer Sciences　　　　**Expected: May 2028**
Bachelor of Science in Computer Science, Minor in Computer Engineering　　　　*GPA 4.0/4.0*
- **Coursework**: Object Oriented Design, Algorithms, Calculus, Foundations of Cybersecurity, Discrete Structures

EXPERIENCE

Northeastern Electric Racing　　　　Sep. 2025 – Present
Embedded Systems Team Member　　　　*Boston, MA*
- Developed embedded monitoring software for electric race vehicle using C++ and Qt framework, working in Linux-based environments through SSH to configure and debug real-time vehicle control systems alongside software/firmware team leads.
- Improved team development efficiency by replacing hard-coded system settings with configurable setup, reducing time from manual code edits to simple file updates and enabling faster testing across different vehicle setups.
- Collaborated across software, electrical, and mechanical sub teams contributing to weekly technical discussions and system integration testing.

Northeastern University　　　　Aug. 2025 – Present
Head Teaching Assistant　　　　*Boston, MA*
- Assisted Professor Susan Wang, Alumeda Konrad, Miguel Fuentes-Cabrera and CS1800 administration to coordinate course delivery for a 200-student "Discrete Structures" class.
- Led team of 10+ Teaching Assistants by delegating grading tasks, assigning problem sets, and coordinating office hour coverage, ensuring consistent student support.
- Evaluated diverse assignment formats (homework assignments, projects, exams) using standardized rubrics and targeted feedback.

EXL Service　　　　July 2023 – Aug. 2025
Data Analyst Intern　　　　*Remote*
- Built interactive, responsive executive dashboards for Google, Databricks, and Amazon using JavaScript visualization libraries, implementing mobile-friendly UI components and data visualization interfaces.
- Applied data validation techniques and automated analysis workflows to process and query 50+ CSVs, reducing manual contract review time by 60% through pattern recognition and statistical anomaly detection.
- Performed exploratory data analysis using Python (Pandas, NumPy) to identify data quality issues and correlations across enterprise datasets, presenting findings to cross-functional stakeholders.

PROJECTS

VaultDB.ai Website | *HTML, CSS, Typescript, React, AWS*　　　　Sep. 2023 – Aug. 2024
- Developed responsive React web application using TypeScript and modern component architecture, implementing interactive UI with client-side state management and mobile-first responsive design patterns.
- Optimized front-end deployment pipeline to AWS using S3 for static hosting containerizing build process with Docker to ensure consistent deployment across environments.
- Implemented automated CI/CD pipeline with GitHub Actions in an Agile workflow, writing unit tests and integration tests to validate API endpoints and front=end components, reducing deployment time by 40%.

PocketEYE | *Arduino IDE, C++, Signal Processing*　　　　June 2023 – Aug. 2023
- Engineered an assistive robotics prototype with embedded control systems integrating hardware and software components to automate real-time obstacle detection and audio feedback control.
- Developed embedded firmware for Arduino microcontrollers in C++ to integrate ultrasonic sensors and speaker systems, prototyping an assistive device for real-time obstacle detection.
- Conducted hardware-software integration testing and troubleshooting to optimize sensor response time, documenting embedded system architecture and signal pathways.

SKILLS

Programming Languages: Python, Java, JavaScript (Vanilla JS, TypeScript), C/C++, Kotlin, Dart, HTML
Frameworks/Tools: React, TypeScript, Node.js, Express, RESTful APIs, Jest/JUnit (Unit Testing), Next.js, Git, PostgreSQL/SQL, MongoDB, Docker, AWS, CI/CD, FastAPI, Flask, Pandas, Selenium, Bash