

# Raunak Upreti

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## Education

### University of North Texas

Bachelor of Science in Computer Science

Relevant Coursework: Software Engineering, Computer Security, Computer Networks, Operating Systems

May 2025

Denton, TX

## Work Experience

### Ergool

Software Engineering Intern

Mar 2024 – May 2024

New York, NY

- Conducted system integration and user acceptance testing (UAT), ensuring high-quality software performance.
- Collaborated with cross-functional teams to analyze product testing requirements and develop test strategies.
- Performed root-cause analysis, implementing corrective actions that improved mobile application stability.
- Developed and executed test plans for new and existing products, enhancing software reliability.
- Analyzed test results and identified areas for improvement, contributing to continuous quality enhancements.

### University of North Texas

Information Technology Support Assistant

May 2024 – Present

Denton, TX

- Provided technical support for faculty, and staff, troubleshooting hardware, software, and network issues across Windows, macOS, and mobile devices.
- Resolved technical support tickets, weekly, ensuring efficient problem resolution and minimizing downtime.
- Assisted in IT infrastructure projects, optimizing system performance and implementing security updates.
- Delivered user training sessions on software application and IT best practices, improving staff proficiency.
- Stayed updated on emerging technology trends to enhance IT support services.

## Projects

### Shop Simplify | React, NodeJS, Express, Firebase

May 2024

- Developed a secure peer-to-peer marketplace using React, Node.js, and Express.
- Implemented Firebase Firestore, Firebase Authentication, and Firebase Storage for real-time data, user authentication, and media handling.
- Implemented secure payments, in-app messaging, and scam reporting for enhanced platform security.

### JWKS Authentication Server | Python (FastAPI), SQLite, JWT, AES, Argon2

Jan 2025

- Developed a RESTful server with RSA key rotation, **kid** support, and secure JWT validation.
- Designed **/auth** and **/jwks** endpoints for token issuance and public key distribution.
- Secured stored private keys with **AES encryption** and integrated **SQLite** for persistence.
- Implemented user registration with **UUID passwords**, **Argon2 hashing**, and metadata logging.
- Logged all auth attempts for improved **auditability** and **security observability**.

## Skills

**Languages:** TypeScript, JavaScript, Python, C, C++, HTML, CSS

**Frameworks:** React, Next.js, Node.js, Express.js, FastAPI, Tailwind CSS, Bootstrap

**Developer Tools:** Git, npm, Jira, Trello, AWS, Docker, Google Cloud Platform, Firebase

**Databases:** PostgreSQL, MongoDB, SQLite

**Certificates:** IBM Full-Stack Software Developer, Programming in Python by Meta