

# Md. Touhidul Islam

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[in](#) touhid19    [in](#) touhid9teen    [in](#) Portfolio

## Experience

### Upay (UCB Fintech Company Limited)

Technology Intern (Back-end)

Aug 2024 – Nov 2024 | Gulshan, Dhaka

#### Work area:

- Developed scalable and maintainable APIs using Django Rest Framework, ensuring efficient back-end solutions.
- Implemented diverse authentication methods, including token-based, session-based, JWT, symmetric and asymmetric encryption, enhancing API security and compliance.
- Optimized microservice communication using RESTful APIs, streamlining data exchange across distributed systems.
- Leveraged Celery for asynchronous task management, integrated caching mechanisms, and fine-tuned Django ORM queries for optimal performance.
- Reinforced data integrity through advanced validation techniques, safeguarding system reliability.

### Vivasoft Limited

Geeky Solution's Learnathon 2.0 - Internship (Front-end)

Sep 2023 – Feb 2024 | Remote

#### Work area:

- Designed and developed responsive UIs with JavaScript, ReactJS, and Tailwind CSS, improving cross-platform performance.
- Enhanced functionality and performance of Vivasoft Contact Management applications through collaboration on a real-world front-end project.
- Built reusable UI components using React hooks, state management, and lifecycle methods, optimizing user experience and contributing to agile, iterative development.

## Projects

### Job Portal [↗](#)

- Developed a secure Django REST API-based job portal featuring custom JWT authentication, custom user model, token generation, profile inheritance, automatic profile updates post-OTP verification using Celery and a message broker, and implemented caching strategies to optimize performance and reduce server load.
- **Technologies Used :** Django REST Framework, PostgreSQL, JWT, Celery, Redis, Git.

### PayMicroservice [↗](#)

- Built a secure money transfer microservice with inter-service communication and used Celery for handling asynchronous automatic payments.
- **Technologies Used :** Django REST Framework, JWT, Celery, PostgreSQL, Git.

### Alumni Management System [↗](#)

- Developed a comprehensive Alumni Management System to facilitate communication, networking, and engagement between alumni and the institution.
- **Technologies Used :** React.js, TypeScript, Tailwind CSS, Git.

## Skills

### Programming

- C • C++ • Java • JavaScript • TypeScript • Python • SQL Server • Postgres • HTML • CSS

### Frameworks and Libraries

- Django • Django Rest Framework • React • Tailwind CSS

### Other Technologies

- Microservices • Celery • Redis • Docker

### Developer Tools

- Git • GitHub • Postman • VS Code • PyCharm

## Coding Platforms

### Codeforces - Pupil [↗](#)

- 1400+ solved, max rating 1366.

### Codechef - 3\* [↗](#)

- 100+ solved, max rating 1624.

### Leetcode [↗](#)

- 70+ solved, max rating 1463.

## Education

### University of Rajshahi

Bachelor of Science in **Information and Communication Engineering**

Jan 2019 - Sep 2024

## Coursework

### Undergraduate

Programming with C, Data Structure and Algorithm, Java and Network Programming, Discrete Mathematics, Database Management Systems, Software Engineering, Information System Analysis Design, Computer Network, Fundamental of Cryptography, Information Theory and Coding, Web Engineering.

## Volunteering

Assistant Contest Secretary at ICE Programming Club, University of Rajshahi (Jan 2023 – July 2024)