

SOHEL RANA

Software Engineer | Aspiring Graduate Researcher

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PROFILE SUMMARY

Results-driven Senior Developer with 4+ years of professional experience, specializing in full-stack ownership, AI-driven automation, and secure enterprise systems. Skilled across backend, frontend, and DevOps workflows, supported by strong academic preparation in core computer science and software engineering. Possesses a solid academic record, especially in software engineering coursework. Highly motivated to pursue a Master's degree to advance expertise in system architecture and applied research.

EDUCATION

United International University

Bachelor of Science in Computer Science & Engineering (CSE)

Dhaka, Bangladesh

2015 – 2019

- **CGPA:** 3.04 / 4.00
- **Key Achievement:** Awarded 50% and 25% academic scholarships multiple times based on semester results.

Cambrian School & College

Higher Secondary School Certificate (HSC), Science Group

Dhaka, Bangladesh

2011 – 2013

- **GPA:** 5.00 / 5.00

Dhalla Union Council High School

Secondary School Certificate (SSC), Science Group

Singair, Bangladesh

2009 – 2011

- **GPA:** 4.88 / 5.00

PROFESSIONAL EXPERIENCE

Innoweb Ltd. (Product: robo2mation.com)

Senior Software Engineer

Dhaka, Bangladesh

Dec 2022 – Present

- **Full-Stack Development:** Developed core backend and frontend features for the Workflow Automation and Document Management Systems (DMS) using **Django REST Framework** and modern JavaScript/UI tools.
- **Intelligent Automation:** Built advanced document-processing pipelines integrating **Tesseract OCR**, GPT-based automation, and WeasyPrint PDF generation.
- **Business Impact:** Delivered major client-specific features by converting complex business workflows into scalable, secure software solutions; contributed to the mobile app (**Flutter**) for extended platform reach.
- **System Integration & Security:** Integrated large enterprise systems (banking & telecom) using secure LDAP/SSO and API-based communication; strengthened security by resolving VAPT findings and optimizing PostgreSQL schemas.
- **DevOps & Quality:** Collaborated with DevOps on Docker deployments, CI/CD (**GitHub Actions**), and production stability; worked with SQA to enhance testing quality and ensure reliable releases.
- **Mentorship & Leadership:** Mentored junior developers, provided rigorous code reviews, and guided best practices in API design and secure development.

PyronLab

Junior Software Engineer

Dhaka, Bangladesh

Oct 2020 – Nov 2022

- Designed and implemented core business logic, user workflows, and UI/UX components across multiple commercial applications.
- Developed and maintained REST APIs, dynamic frontend interfaces, and reusable components using Django, jQuery, JavaScript, and HTML/CSS.
- Built feature-rich modules for PyronConverter, ChangeUnit, and Imarat.com.bd, ensuring accuracy, performance, and scalable design.
- Deployed applications to DigitalOcean using Linux, Nginx, and environment-based configurations, ensuring secure and stable production environments.
- Optimized system performance through code refactoring, debugging, , and UI responsiveness improvements.

RESEARCH & ACADEMIC PROJECTS

Blood Donation Management System | *Capstone Project*

- **Role:** Lead Developer & Documentation Owner
- Engineered core system features connecting donors, recipients, and hospitals, including registration and inventory tracking.
- Authored comprehensive documentation, including requirements, DFD, ERD, and system design, demonstrating analytical rigor.
- Coordinated tasks among teammates and successfully defended the project to the faculty evaluation panel.

Digital Book Shop E-commerce Site | *Software Engineering Lab Course Project*

- **Result:** Achieved a perfect grade of **4.0 out of 4.0** for the course.
- **Contribution:** Developed a functional online book sales platform (e-commerce site) as a key member of a two-person team.
- Focus areas included user authentication, product catalog management, and secure transaction processing.

TECHNICAL SKILLS

Languages & Backend: Python, Django, Django REST Framework, OpenAI GPT API, Tesseract OCR

Frontend: JavaScript, jQuery, Vue.js, Next.js, HTML5, CSS3, Bootstrap, **Flutter**

Databases: PostgreSQL, MySQL, SQLite, MongoDB

DevOps & Tools: Docker, Git, GitHub Actions (CI/CD), DigitalOcean, Ubuntu, Unicorn, Nginx, Postman

Security: VAPT Remediation, LDAP/SSO, IDOR Protection, REST API Design

HONORS & ACHIEVEMENTS

University Merit Scholarships: Secured 50% and 25% tuition waivers multiple times for achieving academic excellence during undergraduate studies.

Talent-Pool Scholarships: Awarded government scholarships at both Primary and Junior School levels; secured the **first position** in the region for the Primary School Scholarship.

KEY STRENGTHS

Academic Aptitude & Dedication: Committed to continuous learning and achieving high standards, demonstrated by scholarship history and a 4.0/4.0 project grade.

Leadership & Collaboration: Proven ability to guide junior developers, coordinate complex tasks, and collaborate effectively under pressure (calm under pressure).

Adaptability & Responsibility: Highly adaptable to new technologies and fully responsible for project execution, development, and documentation.

Intellectual Curiosity: Strong interest in adjacent fields like psychology and philosophy, promoting a holistic and analytical approach to complex problem-solving.

LEADERSHIP & ACTIVITIES

Student Group Leader: Assigned by the Upazilla Education Officer to coordinate class activities and enhance learning outcomes in school.

University Engagement: Actively participated in cultural and literary activities, fostering teamwork and organizational skills.

CERTIFICATIONS

Python and Django for Web & API Development — CDIP

LANGUAGES

Bengali: Native Proficiency

English: Professional Working Proficiency (Suitable for advanced academic and technical communication)