

# SOHEL RAHMAN

## Software Engineer

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*Tech enthusiast with a passion for full-stack web development, cloud engineering and DevOps. Experienced in building fast, scalable applications that operate in a variety of web or desktop settings.*

### QUALIFICATIONS

**Technical Skills:** Python, C, C++, C#, Java, HTML, CSS, Tailwind CSS, Bootstrap, Javascript, TypeScript, Django, PHP, Laravel, Nginx, Unicorn, Pandas, Pygame, Bash Scripting, Git, Unity Engine, MySQL, PostgreSQL, SQLite, AWS, Azure, GCP, Windows OS, Linux OS (Mint and Ubuntu)

**Key Skills:** Communication, Adaptability, Time Management, Teamwork

**Core Qualities:** Resourceful, Quick Learner, Confident, Advanced Communication Skills

**Languages:** English, Bengali, Hindi

### EXPERIENCE

**Full stack engineer, Barneel Inc.,** New York, New York (Sep 2024 - present)

Barneel Inc. is an up and coming garments wholesaler startup that aims to leverage Bangladesh's burgeoning \$47 billion garments manufacturing industry in order to offer innovative apparel sourcing solutions to fashion outlets located in the US.

- Build a new web application from scratch using Django, TypeScript and PostgreSQL.
- Switch the firm's web hosting to AWS and implement Elastic Load Balancing in order to improve scalability.
- Utilize Amazon CloudFront CDN to enable reliable access for a multinational user base located in Bangladesh, India and USA.

**Software engineer, Turtle Solutions Ltd.,** Dhaka, Bangladesh (Dec 2019 - Dec 2021)

Turtle Solutions Limited is a Software Development company located in Dhaka, Bangladesh that offers bespoke software solutions in a number of fields including web applications, mobile games, industrial ERP solutions, etc.

- Utilized Bootstrap and jQuery for working with company website's frontend.
- Spearheaded development of the website's backend from pure PHP to Laravel.
- Migrated website's MySQL database to PostgreSQL, leading to improved reliability and scalability.
- Involved in ERP software development for a number of clients, leading to a 20% increase in sales.
- Engaged in the firm's agile methodology and JIRA ticketing system in order to become comfortable with a professional software development setting.

### PROJECTS

- **django\_blog:** Python application with a focus on simplicity and modular design principles in mind, with a focus on demonstrating utilization of various AWS cloud computing services. (Aug 2024 - present)
  - o An Nginx server running on an AWS EC2 VM instance is being configured.
  - o Unicorn is being utilized as the Web Server Gateway Interface (WSGI) between django\_blog application and Nginx server.
  - o Placed focus on making UI/UX accessible and lightweight.

*Technology used:* Django, Python, AWS EC2, Nginx, Unicorn

- **retro\_site:** Web project that aims to recreate a nostalgic UI look and feel by drawing inspiration from retro operating systems such as Windows 95 and 98. (Jul 2024 - Aug 2024)
  - o Designed the UI/UX to be accessible from any viewport size (mobile, tablet, desktop, etc)
  - o Meticulously tested the site to ensure fluid transitions between different viewpoint sizes upon window resizing.
  - o Optimized the project to minimize AWS storage and bandwidth resource usage and stay within desired quotas.
  - o Deployed on AWS S3 and utilized a custom domain to make the project easily accessible to the public.
  - o Implemented a client-side scripting only model in order to further reduce usage of AWS resource quotas.

- o Debugged any issue that appeared throughout the development process that interfered with application functionality and efficiency.

*Technology used:* HTML, CSS, Javascript, Tailwind CSS, AWS S3 bucket

- **genetic-arcade:** Python based project that showcases the power of genetic algorithms in a variety of visual environments. (May 2024 - July 2024)
  - o Built machine learning models that used unsupervised learning to solve diverse problem sets in a changing visual environment.
  - o Effectively designed code implementing a genetic algorithm (NeuroEvolution of Augmenting Topologies - NEAT) to tackle evolving problem sets.
  - o Implemented Git version control to effectively document various stages of the project development and keep track of evolving features in the codebase.

*Technology used:* python, pygame, python-neat, matplotlib

- **pdf\_extractor:** Simple python program that extracts specific data from a table in a pdf file. (May 2023)
  - o Introduced bash scripting to automate data extraction and organization.
  - o Included dummy files with mock data to demonstrate usage principles.
  - o Extensively documented methods to customize the program in order to fit individual scenarios.

*Technology used:* tabula, pandas, numpy, bash scripting

## **EDUCATION**

MSc in Computer Science, The City College of New York (2022-2024)

BSc in Computer Science and Engineering, North South University, Bangladesh (2016-2021)

## **HONORS/AWARDS**

Full Tuition Waiver Scholarship, North South University, 2016

Kennedy-Lugar Youth Exchange and Study scholarship, Forest Hills High School, New York, 2014