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, Gunicorn, 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
Founding engineer, **Barneel Inc.**, New York, New York   (Jan 2025 - present)
As a founding engineer, I have a much more direct involvement in this company's future direction. Some of my responsibilities include:
- 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.

Web Development Intern, **Barneel Inc.**, New York, New York   (Oct 2024 - Jan 2025)
Barneel Inc. is an up and coming garments wholesaler startup that aims to leverage Bangladesh's burgeoning garments manufacturing industry in order to offer innovative apparel sourcing solutions to fashion outlets located in the US. As a fresh graduate, this internship was great for learning about real world problems in the US tech industry and how to tackle them.
- Improved familiarity with JIRA ticketing system and agile methodology.
- Learning about online payment gateways and how to implement them in a business setting.
- Learning about Django, React, Node JS, Tailwind CSS and Typescript.

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.
- Received hands-on experience regarding efficient workflow in a professional 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   Gunicorn 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, Gunicorn

- **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