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Arnab Roy

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Professional Experience

Software Engineer	Enosis Solutions	Dec 2017 – Nov 2019

- Developed multiple application wide features on a large **Fin-Tech Web Application** which has a hybrid architecture (combination of **SOA** and **event driven micro-services**).
- **Globalized** (Internationalized) a full-scale web application to support any number of locales (as of now 4) by using several localizing frameworks and libraries in both back and front end.
- Designed & Implemented framework to **support different fiscal year format** (from -12 to +12) in all financial logics and reports' calculations by devising formulas using modular arithmetic to replace manual conversion, improve efficiency and reduce the length of code-base by 90%.
- Designed & developed REST APIs and AngularJS components to **port over the legacy application** (built in ASP .NET MVC) **to modularized SOA** (Service-Oriented-Application).
- Redesigned the original **budgeting micro-service** (written in **F#**) to support **team-wise budgeting** experience, extending the original **enterprise-level budgeting** experience.

Software Development Engineer	Craftsmen Ltd.	Dec 2019 - Present

- Developed application wide features on a **Web Application** for **Digitizing Newsroom.**

Technical Skills

- Languages: **C++, JavaScript, Python, C#, F#**.
- Web Technologies and Frameworks: **Node.js, React.js, GraphQL, Apollo, Django, ASP .NET MVC, AngularJs**.
- Database: **Microsoft SQL Server, SQLITE, MySQL, DynamoDB**.
- Other: **Data Structure and Algorithms, OOP, Git, Functional Programming**.

Achievements

- Secured **13th** position in **ACM ICPC Dhaka Regional 2016** among **120+** teams.
- Secured **41st** position in **ACM ICPC Dhaka Regional 2015** among **120+** teams.
- Secured **7th** position in **DIU ACM ICPC World Finals Warm Up 2016** among **60+** teams.
- Participated **Robi Datathon – A Hackathon on Data Science 2019,** solved several problems including one **Time Series Forecasting** problem.
- Participated in **30+** national and regional contests and **100+** online contests.
- Solved 800+ problems in various online judges: **Codeforces, Codechef, UVa, Hackerrank, LightOj.**

Education

B. Sc. In Computer Science & Engineering	Jan, 2013-April, 2018
Military Institute of Science and Technology	Dhaka, Bangladesh

Higher Secondary Certificate	June, 2010-July, 2012
Notre Dame College	Dhaka, Bangladesh

Academic & Personal Projects

- **Automated Code Judge: (Python 3.5x)** A LAN-based client server system to judge computer codes.
- **Awaaz: (Android)** A text to speech converter mobile application.
- **trifiasco-resume: (Node.js)** A CLI version of my personal resume published as an *npm package.*
- **Horcruxifier: (Node.js)** A CLI application to secure files through encryption published as an *npm package*.

Additional Experience

- **Trainer** of "Contest Programming" and "Data Structures & Algorithms" in MIST Computer Club.
- **Problem Setter** at Intra MIST Programming Contest 2018.