

Ali Ahmed

Web Developer

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Portfolio: aliahmed.netlify.com

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PROJECTS

As a capstone to each of FreeCodeCamp's (FCC) front-end, back-end & data visualization certifications, I finished the following projects and earned FCC's Full-Stack [Certification](#).

- [Anonymous Message Board](#) - A full Stack Single-Page web application where anonymous users can create posts and threads in the board of their choice. API implemented with **Node/Express**, with **MongoDB** as Database (using **Mongoose** as ODM). Front-end made with **React** & styled with **Materialize CSS** library, bundled with **Parcel**. ([code](#))
- [Pomodoro Clock](#) – Used **React** & **Sass** to build a Pomodoro timer, a time management technique. ([code](#))
- [Treemap Diagram](#) – Visualizing data on top-selling movies (in multiple genres) as a Treemap diagram using the **D3** data visualization library. ([code](#))
- [Exercise Tracker Microservice](#) – implemented with **Node/Express**, with **MongoDB (Mongoose)** as well as **PostgreSQL (knexJS)** as Databases. ([mongo](#), [pg](#))

Apart from the above, I have also completed the following projects:

- [Note-taking App](#) – A full stack SPA built with **React**, **TypeScript**, **Express**, and **Mongoose**. The app was primarily built to learn user authentication with **JWTs**, as well learn development and deployment with **Docker** Containers. The database and server are two separate Docker containers ready for deployment. ([code](#))
- [Zilch \(Farkle\)](#) – A two-player dice game, implemented using **React Hooks** & CSS-in-JS library, **styled-components**. ([code](#))
- [Simon](#) – Browser implementation of Simon game, using **React** and **TypeScript**. ([code](#))
- [Hangman](#) – Implemented with **React**, **TypeScript**, **Vue** and **Elm**. ([code-vue](#))
- [Wikipedia Viewer](#) – Search Wikipedia articles, using Wikimedia API. Implemented with vanilla **JS**, **React**, **Vue**, and **Elm**. ([code-elm](#))

All the above projects and some more can be viewed on my [portfolio](#).

SKILLS

Languages: JavaScript ES6+ (Advanced), TypeScript, Haskell (Learning), Ruby (Learning), Python (familiar)

Front-End: React (advanced), Vue, Elm

Back-End: Node, Express (Advanced)

Database: MongoDB, Mongoose (Advanced), SQL, PostgreSQL, knexJS

Testing: Jest, Mocha, Chai

CSS: CSS Grid, flexbox, Sass, material-ui

Current

May 14, 2019 – To Date

Dec 2016 – Oct 2018

Key Achievements

- Participated in cross-functional team meetings to formulate or re-align company policies and SOPs, successfully completed New Connection Policy Manual 2.0, *Asaan* (easy) meter policy, meter replacement SOP, electricity bill redesign etc.
- I initiated enlightenment drive for 29 Integrated Business Centers, highlighting the importance of NEPRA Rules & Regulations, resulting in a reduction of complaints and observations by 30% over the next six months.

Mar 2013 – Nov 2016

Key Achievements

- I was my department's Lead Engineer on K-Electric Hand Held Unit (HHU) Project rollout, which made the whole billing process paperless and environmentally responsible.
- Executed System improvement schemes such as reduction of TAT on Load Regularization cases, an overhaul of the meter replacement process, installation of ABC Cables and cost-benefit analysis and impact of light-meter removal.

Jan 2011 – Feb 2013

Key Achievements

- Successfully identified and targeted high-loss areas and brought commercial losses down to 9% from 21% of total sent-out units and improved recovery ratio from 87% to 98%.
- As part of system improvement initiatives, implemented projects such as identification of Captive Power industrial customers, installation of Check meters and power factor enhancement drives.

Sep 2012 – Dec 2016

(Equivalent to Canadian Masters of Business Administration Degree, accredited by IQAS)

Jan 2006 – Dec 2009

(Equivalent to four-year Bachelor of Science degree (focus in electrical engineering), accredited by IQAS)

CS courses: Microprocessors & Assembly Language, Computer Architecture & Organization, Logic Design & Switching Theory, Programming with C Language, Fundamentals of Computer Engineering.

VOLUNTEERING & OTHER ACTIVITIES

- Worked as a Deputy Returning Officer (DRO) in Alberta Provincial Elections, April 16, 2019.
- Volunteered as Event Assistant in inter-school Science Olympics at University of Alberta Pavilion, held by The Association of Professional Engineers and Geoscientists of Alberta (APEGA) on April 6, 2019.
- Secured 8.0 band in IELTS General (Listening: 8.5, Reading: 9, Writing: 7, Speaking: 8).