

Ali Ahmed

Web Developer

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Portfolio: aliahmed.netlify.com

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

PROFESSIONAL EXPERIENCE

Assistant Manager - Regulations

K-Electric Limited

Dec 2016 – Oct 2018

(K-Electric is the utility company that supplies electricity to Pakistan's largest city, Karachi)

Key Achievements

- In light of changing regulatory environment, 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.
- Amid increasing customer complaints and regulator observations, 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.

Assistant Manager – Customer Accounts

K-Electric Limited

Mar 2013 – Nov 2016

Key Achievements

- As part of the system modernization drive, performed duties as 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.

Assistant Manager – Revenue Protection

K-Electric Limited

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.

EDUCATION

Master of Business Administration, IBA Karachi.

Sep 2012 – Dec 2016

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

BE Electrical Engineering, NED University of Engineering & Technology.

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).