

Ali Ahmed

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PROJECTS

I taught myself web development from various online resources and completed FreeCodeCamp.org 's full curriculum of 6 front-end, data visualization and back-end certifications, earning FCC's Full Stack Certification.

As a capstone to these certifications, I completed the following projects.

- **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**.
- **Pomodoro Clock** – Used **React** & **Sass** to build a Pomodoro timer, a time management technique.
- **Treemap Diagram** – Visualizing data on top selling movies (in multiple genres) as a Treemap diagram using **D3** data visualization library.
- **Product Landing Page** – A fully responsive product landing page of a computer manufacturer. Built using **Sass**.
- **Exercise Tracker** – Micro-service implemented with **Node/Express**, with **MongoDB (Mongoose)** as well as **PostgreSQL (knexJS)** as Databases.

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

- **Zilch** – A two player dice game, implemented using **React Hooks** & CSS-in-JS library, **styled-components**.
- **Simon** – Browser implementation of Simon game, using **React** and **TypeScript**.
- **Hangman Game** – Implemented with **React, TypeScript, Vue** and **Elm**.
- **Wikipedia Viewer** – Search wikipedia articles, using wikimedia API. Implemented with vanilla JS, **React, Vue** and **Elm**.

SKILLS

- | | | |
|---------------------|---------------------|---------------------------|
| • <i>JavaScript</i> | • <i>TypeScript</i> | • <i>D3</i> |
| • <i>React</i> | • <i>Node</i> | • <i>Jest</i> |
| • <i>Vue</i> | • <i>Express</i> | • <i>Mocha & Chai</i> |
| • <i>Elm</i> | • <i>MongoDB</i> | • <i>material-ui</i> |
| • <i>Sass</i> | • <i>Mongoose</i> | |
| • <i>Redux</i> | • <i>PostgreSQL</i> | |

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)

- Liaison with the Regulator (National Electric Power Regulatory Authority) in resolution of customer complaints, submission of Generation, Transmission & Distribution Quarterly/Annual Reports.
- As part of cross functional teams, formulating and revising company policies and SOPs in accordance with NEPRA Rules and Regulations, such as New Connection Policy Manual 2.0.
- Preparing for and attending public hearings held by the Regulator.

Assistant Manager – Customer Accounts **K-Electric Limited** **Mar 2013 – Nov 2016**

- Responsible for Billing Operations of Large Industrial Accounts (>40 kW), and supervision of a team of Meter Inspection Officers to execute Small Industries Billing in light of company policies and NEPRA Consumer Service Manual.
- Proposed improvements such as reduction of TAT on Load Regularization cases, faulty meter identification and meter replacement process, installation of ABC and cost-benefit analysis of removal of light meters.
- Departments lead engineer on K-Electric Hand Held Unit (HHU) Project roll out. Also part of team responsible for overseeing data migration from oracle-based system to SAP.

Assistant Manager – Revenue Protection Dept. **K-Electric Limited** **Jan 2011 – Feb 2013**

- As part of a newly formed department, identification and reduction of Aggregate Technical & Commercial losses in the SITE Industrial Area was the primary target.
- The team successfully brought commercial losses down from 21% to 14% of total sales and improved recovery ratio from 90% to 98%.
- Executed Distribution System Improvement Schemes such as Power Factor enhancement, application of Regulator Approved Tariff; advise and facilitate consumers in adoption of power factor correction and raise their awareness of tariff structure, company policies and nationwide electric power Regulations.

EDUCATION

Master of Business Administration, IBA Karachi. **Sep 2012 – Dec 2016**
(equivalent to Canadian Masters of Business Administration Degree, assessment by IQAS)

Major Courses: B2B Marketing, Supply Chain Management, Dynamics of Distribution & Logistics, Consumer Behavior, Advanced Corporate Finance, Financial Modeling, Investment Banking, Islamic Banking.

BE Electrical Engineering, NED University of Engineering & Technology. **Jan 2006 – Dec 2009**
(equivalent to four-year Bachelor of Science degree (focus in electrical engineering), assessment by IQAS)

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