

Ali Ahmed

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Portfolio: aliahmed.netlify.com

PROJECTS

As a capstone to each of FreeCodeCamp's front-end, back-end & data visualization certifications, I finished 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**. ([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 **D3** data visualization library. ([code](#))
- [Product Landing Page](#) - A fully responsive product landing page of a computer manufacturer. Built using **Sass**. ([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:

- [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

- | | | |
|--------------|--------------|----------------------|
| • JavaScript | • TypeScript | • D3 |
| • React | • Node | • Jest |
| • Vue | • Express | • Mocha & Chai |
| • Elm | • MongoDB | • CSS Grid & Flexbox |
| • Sass | • Mongoose | • material-ui |
| • Redux | • PostgreSQL | |

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, company-wide implementation of NEPRA Rules & Regulations through policies & SOPs and 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.
- In coordination with relevant Integrated Business Centers (IBCs), reduced consumer complaints and regulator observations by 30%.

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

- Execution of Large Industrial Accounts Billing Operation and supervision of a team of Meter Inspection Officers to execute Small Industry Billing and report to management.
- Successfully managed 22% (approx. \$4.2 million) of \$19.5 million Key Industrial Revenue Accounts.
- Executed system improvement schemes such as reduction of TAT on Load Regularization cases, overhaul of meter replacement process, installation of ABC cables and cost-benefit analysis of removal of light meters.

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%.
- Implemented Distribution System improvement projects such as identification of Captive Power Industrial customers, installation of Check meters and power factor enhancement drive.

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.