**Kamal Mukherjee**

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**Summary**

Results-driven Software Developer with 15+ years of IT experience in analyze, model, and interpret data including end-to-end Life Cycle Management of software development projects and 2+ years of experience in Data Analysis using Python and related technologies. Excellent communication and leadership skills and ability to work with a team as well as independently. Resourceful problem-solver with superior conflict resolution skills. Adept at working with diverse teams to implement complex projects. Graduate of Data Analysis and Full Stack Development program through Columbia University.

**Technical Skills:**

Python, React.js, Pandas, Matplotlib, Flask, SQL, NoSQL, RESTful API, JavaScript / ES6, D3, Material UI, HTML5, CSS3, Excel / VBA, Lotus Notes, JIRA, Git / BitBucket, Jenkins, Ansible

**Applications Built:**

**Greensheets Management Dashboard** **Role:** Application Architect

Company: Bank of America, Jersey City, NJ (Jan 2019 - Present)

This application provides bank’s performance dashboard to the top management using historical data as well as real time data feed from the stock markets at three minutes interval. Performed data cleanup, visualization and prototyping using Jupyter Notebook, Pandas, Matplotlib and other Python libraries. Experienced in ETL using data from multiple sources e.g. CSV, HTML Tables, SQL Databases and JSON files via API endpoints to Pandas dataframes and assembled them via merge, join, and concatenate. Turned unstructured data on the web to structured data via web scrapping using BeautifulSoup, Splinter, LXML etc. and uploaded it to our internal MongoDB to have it ready for analysis. Implemented asynchronous email notifications and created RESTful APIs to perform CRUD operations using Python, Flask and SQLAlchemy. Created dashboard using ReactJS. Integrated React with Ag-Grid and HighCharts to provide drill-down reports and graphs, respectively. Experienced in version control through Git/Bitbucket and CI/CD tools like Jenkins, Ansible.

Tools Used: Python, ReactJS, Pandas, Matplotlib, Flask, JavaScript / ES6, HTML5, CSS3/SCSS, Material UI, MongoDB, Oracle, RESTful API, Ag-Grid, HighCharts, Jest, JIRA, Git / Bitbucket, Jenkins / Ansible

**Customer Specification Role:** Lead Developer

Company: Unimin Corporation, New Canaan, CT (Jan 2016 – Dec 2018)

This web application allows pre-approved customers to either submit the specification of their custom product online or send the specification via JSON file. The engineering team would review the specification for feasibility and the finance team will prepare a proposal that will be sent to the client either via API or email. Implemented React Error Boundaries to capture any runtime error and let the application fail gracefully and update the log with the detailed error message for the services team. Performed CRUD operations from React components through RESTful API. Integrated React with Toastify to display non-blocking notifications to the users during runtime. Successfully implemented React Higher Order Components to reuse component logic to reduce development time.

Tools used: React.JS, Node.JS, Express.JS, MongoDB, RESTful API, JavaScript / ES6, HTML5, CSS3, Bootstrap

**Customer Complaint System Role:** Lead developer

Company: Unimin Corporation, New Canaan, CT (Jun 2013 – Dec 2015)

This centralized application will gather customer complaints from various regions and route them through engineering, pricing, customer service and other related departments to identify the root cause of an issue. The application will also allow the account executives to propose a credit or discount that will be routed to the manager and general manager for final approval.

Tools used: Lotus Notes, Domino, PostgreSQL, LotusScript, JavaScript, JQuery, HTML, CSS.

**Freight Rate & Vendor Ranking Role:** Lead Developer

Company: Unimin Corporation, New Canaan, CT (Jan 2010 – May 2013)

This Groupware application with web portal is designed to route freight rate proposals among the managerial hierarchy of the traffic & dispatch department for approval. This application will also rank the freight forwarding companies based on the timeliness of the delivery, price, and various customer satisfaction parameters.

Tools used: Lotus Notes, Domino, PostgreSQL, LotusScript, Java Applet, JavaScript, JQuery, HTML, CSS.

**Education:**

Data Analyst – Columbia University

Full Stack Developer – Columbia University

Bachelor of Arts: (Philosophy, History & Pol. Science) – Calcutta University

**Relevant Experience**

**Bank of America** Jersey City, NJ

Application Architect (Contract) January 2019 - Present

* Efficiently collaborated and worked with business users and stakeholders to compile datasets and prepare visualization prototypes to be presented to the senior leadership team.
* Effectively analyzed and interpreted data to eliminate duplicate, irrelevant observations, fixed structural errors, filtered unwanted outliers, and handled missing categorical and numeric data.
* Acquired data from primary or secondary data sources, defined Strategy and Metrics for data retrieval plan
* Successfully embraced both Scrum and Kanban templates of Agile methodologies and the advantages it brings to communication, flexibility, and delivering working code.

**Unimin Corporation** New Canaan, CT

Lead Developer January 2010 – December 2018

* Reengineered several systems that fueled improvements to productivity, efficiency, and transparency for global business operations.
* Effectively interpreted and documented business requirements and determined the scope of projects through user interview, technical walkthrough, and data analysis.
* Worked with technical teams of vendors and customers to finalize JSON structure, API endpoints and other data related specifications.
* Implemented Rapid Application Development process by utilizing tools such as Bootstrap, Sequelize ORM, Mongoose ODM etc.
* Successfully trained and mentored junior developers on coding standards and helped with code reviews.

**IBM Global Services** White Plains, NY

IT Consultant October 2005 – December 2009

* Lead, developed and implemented software solutions for various Life Cycle Management Applications, increasing productivity throughout the consulting practice of IBM.
* Worked closely with the business users to identify data source, maintain sanctity of data and filter & clean data before importing them into the database.
* Co-ordinated with network and database administrators to implement security, access control and different roles within the Lotus Notes database ecosystem.
* Created and developed various UDF and standardized modules that can be used across different applications.
* Coordinated with various consulting practices to gather specifications for the database; provided documentation and guidance for the programmers.

**Volunteer Work:**

Team Leader – New York Cares, focusing on hunger projects, meal on wheel etc.