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Prathmesh Desai

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EDUCATION

University of Waterloo   **Waterloo, ON**
Business Administration and Computer Science Double Degree (Incomplete)   *Sept 2014 - Dec 2016*

Wilfred Laurier University   **Waterloo, ON**
Business Administration and Computer Science Double Degree (Incomplete)   *Sept 2014 - Dec 2016*

RELEVANT EXPERIENCES

Principal Software Engineer (Contract, Full-time)   **New York, NY**
Lido, https://www.lido.app/   *Sept 2019 – Current*

- First employee at a startup building a no-code data analytics and internal tools platform
- Worked closely with the Founder to develop an MVP based on research findings
- Interviewed, hired and managed several contractors once initial funding was secured, and eventually hired the first engineer
- Helped architect a highly scalable GraphQL API with data ETL pipelines for dozens of data sources
- Worked on creating a React & Next.js web application with a feature rich Spreadsheet component for data manipulation along with a drag and drop Web Builder component for building no-code tools to interface with the imported data
- Led the effort for deploying our test, dev, and prod environments on Heroku and GCP

Principal Software Engineer (Contract, Full-time)   **New York, NY**
Atom Finance, https://atom.finance/   *Nov 2018 – May 2019*

- First employee at a startup democratizing privileged financial data for common investors
- Worked closely with the CEO and CPO to ideate and design an intuitive, familiar, and easy-to-use platform that would best showcase the vast financial data we had access to
- Built a highly scalable streaming pipeline using Kinesis that processes fire hoses of stock price data from many different exchanges, and accurately delivers live prices consistently to all active users. This streaming service is still used today and serves over a million users.
- Interviewed all new hires and set up the initial engineering team of 4 engineers

Data Engineer (Contract, Part-time)   **Remote**
Pangaea Holdings, https://www.pangaea.holdings/   *Jan 2020 – Current*

- Deployed a self-hosted instance of Tableau on EC2 and created over 50 different data visualizations for the Marketing, Sales, Accounting and Leadership divisions
- Led an initiative to strip individual services like Amplitude and Klaviyo from our stores (Lumin, Meridian, etc) and replace these multiple implementations with a single Segment implementation. Resulted in faster page load times, decreased code redundancy, and streamlined our process of connecting to new tools
- Worked with Google BigQuery and AWS Redshift to analyze very large datasets
- Built custom ETL workflows (generally ones that Segment could not handle) in Python with Singer Taps/Targets, and used Apache Airflow to manage these workflows
- Worked closely with the co-founder to use data to programmatically optimize our CAC across different ads platforms

Director   **New York, NY**
Horizons School of Technology, https://www.linkedin.com/school/horizons-/   *Jan 2019 – Aug 2019*

- Operated the New York cohort of Horizons, an established coding bootcamp for college students
- Handled marketing the program across thousands of US colleges, logistics for affordable housing for non-NYC students, and acquiring + furnishing an office space for the program
- Managed a team of 5 TAs and Instructors, and held daily standups to promote team visibility into all student sections
- Held fortnightly 1:1s with students and employees to ensure Horizons was optimizing for each person's individual growth

Lead Instructor & Curriculum Creator   **San Francisco, CA**
Horizons School of Technology, https://www.linkedin.com/school/horizons-/   *Jan 2017 – Dec 2018*

- Instructed students on full-stack technologies (curriculum includes JS, Typescript, React, Redux, GraphQL, React Native, Node, Express, MongoDB, RDS, EC2, Redis, Mocha, Chai)
- Developed exercises, quizzes, and exams to cover course material. The exercises included creating detailed instructions as well as a couple of polished solutions. The class was split into 2-3 hours for lectures and 6-8 hours for exercises. Example exercises: build your own nginx, build your own Express, build a slack chatbot, build a clone of Facebook, etc.

- Led standup and implemented Agile project management tactics for four different project teams. These teams built feature-rich web applications for external clients.
- Built a slack bot that matches on-duty instructors/TAs with students seeking help on Slack (deployed on Heroku and uses JS, Postgres and Redis)
- Ran a separate 2-year cohort (as opposed to the regular 4 month program) that focused on teaching deeper Computer Science concepts (including algorithms & data structures, operating systems, and networking), as well as non full-stack concepts
- Created the majority of the curriculum and exercises for the 2-year cohort (including Java, Spring, Swift, and Advanced SQL)

Software Engineering Intern   **Ann Arbor, MI**

Farmlogs, https://farmlogs.com/   *Jan 2016 – May 2016*
- Maintained, tested, and added features to a farm management software (primarily written using the Backbone.js framework)
- Led the effort to refactor the entire codebase to use React
- Used d3 to create useful visualizations based on client data alongside data extracted from the National Weather Service
- Worked as one of two full-stack engineers on a large feature team for the Prescriptions project (a feature that allows tractors to dispense appropriate amounts of Nitrogen on fields based on geolocation)

Software Engineering Intern   **Toronto, ON**

Hubdoc, https://www.hubdoc.com/   *May 2015 – Sept 2015*
- Worked with the Head of Marketing and a contract designer to develop a new marketing site from scratch. Hubdoc was acquired by Xero but the marketing site we built is still being used.
- Learned and implemented various techniques to optimize the graphics-heavy site for low bandwidth clients and focused a large part of our efforts on proper responsive design
- Developed a number of Web Scrapers to crawl large accounting directories and generate thousands of leads for the sales team
- Operated Hubdoc's social media accounts and wrote articles for the company blog

FEATURED TECHNICAL PROJECTS

Pennvention
- A startup competition management tool for The University of Pennsylvania used by 5,000+ users
- Built the application using Postgres, Node.js, and React

Tessellate
- Built a Chrome extension that analyzes the content a user is viewing on their browser and indicates whether it is more likely to contain liberal or conservative bias
- Created a ML model on Tensorflow based on existing left or right leaning publications
- Allow users to confirm the bias to further train the model and increase accuracy over time

SKILLS & TECHNOLOGIES

Languages: Javascript, Typescript, C++, Python, Java, HTML/CSS, LISP, Swift

Software: React, GraphQL, Next.js, React Native, Vue.js, Node.js, Express.js, SQL, Spring Boot

Data: Snowflake, Google BigQuery, AWS Redshift, AWS Glue, AWS Data Pipeline, AWS RDS, Firebase Realtime DB, Postgres, MySQL, Tableau, Mode, Sisense Periscope