

# Parthiv Mohan

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[pmocal.github.io](https://pmocal.github.io)

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## EXPERIENCE

### **NYC Department of Sanitation**

*Data Engineer (40 hrs per week)*

**Hybrid (Remote/New York, NY)**

*07/2023 - Present*

- Maintain data warehouse and develop applications as member of Operations Management Division
- Migrated on-prem SQL Server data warehouse to Databricks by implementing data pipelines in PySpark
- Deployed integration to publish live data on toll usage by the department's active fleet of 2500+ vehicles
- Developed Power BI dashboard that multiple divisions use to view Mayor's Management Report metrics

### **California Department of Healthcare Access & Information**

*Software Engineer (40 hrs per week)*

**Hybrid (Remote/Sacramento, CA)**

*03/2022 - 06/2023*

- Developed software and provided support to users as part of eServices Development Group
- Worked as a technical lead on web-based applications for overseeing construction of California hospitals

### **Various Clients**

*Freelance Full Stack Developer*

**Remote**

*01/2020 - 02/2022*

- Worked on front (Vue) & back (Django API with Postgres) end of client enterprise application  
*(40 hrs per week 11/2020 to 02/2022)*
- Built log management Django application from end to end for cybersecurity compliance startup  
*(10 hrs per week 07/2020 to 04/2021)*
- Built AI startup an ETL pipeline to frequently fetch clients' HR/IT ticketing data from their service providers
  - Created extensible solution with ServiceNow & JIRA Service Management supported out-of-the-box  
*(30 hrs per week 04/2020 to 08/2020)*
- Built web applications/sites using Node & Vue for writer, jewelry appraisal company & others  
*(40 hrs per week 01/2020 to 04/2020)*

### **IBM Research**

*Cognitive Software Engineer (40 hrs per week)*

**Yorktown Heights, NY**

*03/2017 - 06/2018*

- Developed Case Process Management software for event processing, monitoring, & analytics via cloud
  - Stored events in Elasticsearch and built user-facing dashboards for key performance indicators
- Helped build & maintain API Harmony, an intelligent and open-source catalog of web APIs

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## SKILLS

- Git, Python, SQL, Javascript, Node.js, Vue.js, HTML/CSS, Java, Bash, Databricks, Docker, Django, Spark
- REST; Model-View-Controller; Unit & Integration Testing; Data Warehousing; Machine Learning; AWS

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## EDUCATION

### **University of California, Berkeley**

*B.A. Computer Science, B.A. Cognitive Science; Minor in Creative Writing*

**Berkeley, CA**

*08/2012-08/2016*

### **Relevant Coursework:**

Efficient Algorithms & Intractable Problems; Randomized Algorithms & Probabilistic Analysis; Introduction to Artificial Intelligence; Introduction to Machine Learning; Introduction to Database Systems; Economic Statistics & Econometrics; Discrete Math & Probability Theory; Signal Processing; Industrial Database Systems; UNIX; Machine Structures; Data Structures; Linear Algebra & Differential Equations; Cognitive Neuroscience