


# Jay Gokhale

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## Experience

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 **mogara** | Co-Founder / CTO (Python / AWS / Terraform / React) November 2022 - September 2023

Built a platform to help companies automate a complex enterprise accounting process (software capitalization).

Built entire stack from ground up (frontend, backend, infrastructure)

Created a flexible modular system that allowed easy customization of accounting rules in order to support a wide variety of use cases.

**stripe** | Senior Backend / API Engineer (Ruby, Sinatra, Python, Elasticsearch) March 2018 - October 2022

Introduced grouping mechanism for related accounts relied upon by many internal teams (datascience / risk / sales etc..)

Built and launched multi-account (organization) search in the Stripe dashboard

Significantly reduced re-signup friction by enabling reuse of previously entered business information.

Increased reliability of Stripe's most critical payment flows by introducing eventually consistent reads of stable information

Mentored multiple interns and new engineers

 **Index** | Data / Backend Engineer (Java, Python, S3, Redshift, Lambda, EMR, Spark) July 2015 - March 2018

Scaled Index's email service to handle sending 45K emails per minute

Designed and created a tool that serves large transactional queries in < 1 second

Created a multi-thread scheduler for periodic and one-off jobs

Worked on client facing marketing tools including a new A/B testing framework and an improved recommendation engine

Built features around Twilio / Facebook / Mailgun API's

 **Numenta** | Algorithms Intern and Benchmark Consultant (Python, Javascript, HTML, CSS) Jun 2014 - Dec 2014

Contributed extensively to implementation of a streaming anomaly detection benchmark ([link](#))

## Skills

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### Languages

Java, Python, C, C++, JavaScript,

### Technologies

MongoDB, AWS (Redshift, S3, EMR, Lambda), Presto, Spark, PostgreSQL, MySQL, React,

## Projects

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Autonomous Taxi Scheduler (C, C++)

Tested the feasibility and efficiency of a scheduling system for a fleet of autonomous taxis in a dense city

Genetic Algorithm to Automate Plane Airfoil Design (C, Fortran)

Optimized the design parameters of an airfoil using simulated natural selection of a pool of airfoils with a drag model as a fitness function

## Education

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UC Davis

Jun 2015

MS Computer Science (Machine Learning)

MS Mechanical Engineering (Dynamics and Robotics)

UC San Diego

September 2012

BS Aerospace Engineering/ Mathematics minor