

NATHAN M. PARK

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PROFESSIONAL EXPERIENCE

MongoDB Database Administrator – mLab (MongoDB Database-as-a-Service) Feb 2017 – Current

- Specialist on the database performance team, working directly with the COO
- Developed database tuning optimizations and analyzed hardware performance tailored for high profile users
- Supported quickly scaling users up to 1 TB with complex query design, data analysis, and data modeling
- Improved fleet-wide performance to 20% CPU for multi-tenanted databases on AWS, Azure, & Google Cloud

Developer Advocate – mLab (MongoDB Database-as-a-Service) Feb 2016 – Feb 2017

- Led individual efforts on business development, marketing, and brand strategy towards key metrics
- Represented the company at key tech conferences & relevant coding meetups to foster developer relations
- Authored documentation and blog posts on index management, database operators, and best practices
- Published the official mLab Parse migration guide from account creation to data migration

Data Developer – Ventera (Technology & management consulting) July 2013 – July 2015

- Designed data migration and ETL workflows for 1M+ records in production at the Defense Logistics Agency
- Developed regression models and statistical analysis, which forecasted profits for AT&T product life cycles
- PL/SQL scripting and Business Intelligence (BI) reports development at the Department of Homeland Security
- Application DBA, ETL development, and BI reports design at the Defense Logistics Agency
- T-SQL scripting and BI reports design improving Food Stamps distribution at the Department of Agriculture

PROGRAMMING SKILLS

Programming Languages & Software

JavaScript · Ruby · Python · Node · Shell/Bash · AWS · Azure · Google Cloud · Heroku · Chart.js · Highcharts.js
MongoDB · PostgreSQL · Oracle · PL/SQL · SQL Server · T-SQL · MySQL · Rails · Sinatra · Express

Statistics & Business Intelligence

R · Tableau · Minitab · Arena Discrete Event Simulation · Excel (Data Analysis Toolkit, @Risk) · Palisade Decision Tools Suite · Pentaho (Data Integration, Business Analytics, and Report Design) · Microsoft BI Tools (SQL Server Integration, Analytics, and Reporting) · Crystal Reports · Oracle Data Modeler · Erwin Data Modeler

PROJECTS

San Francisco Civic Music Assoc. Membership System – Bringing local musicians together Current

- Ruby on Rails, PostgreSQL, and deployed to Heroku

Calorie Calculator – Using algorithms to calculate calories burned 2016

- Ruby on Rails, PostgreSQL, jQuery, HTML5, CSS3, Bootstrap, and AllTrails API

Legislative – A new way for ordinary citizens to understand upcoming legislation in real-time 2015

- MongoDB, Express, Node.js, Highcharts, Sunlight Foundation API, and deployed to Heroku

JokesHit – Stay in touch with friends by sending jokes 2015

- Sinatra, Bootstrap, RESTful routes, Twilio API, and deployed to Heroku using a custom domain

EDUCATION

University of Virginia – B.S. Systems and Information Engineering Class of 2013

Thesis - Database Integration in the Albermarle-Charlottesville Regional Jail: A Systems Engineering Approach to Support Evidence-Based Decisions

Projects with R - Analysis of Rail Accidents in the United States from 2001 to 2011; Detecting Spam Mail using Text Analysis; Design Improvements for the University of Virginia Transplant Center