Kenny Lipke

Full Stack Software Engineer

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EXPERIENCE

HELLOMETER | Founding Engineer
December 2020 – Present | Remote

- → Created and maintained React web-app giving customers real time data, live video, analytics, and account management
- → Built and maintained automated email system to update customers, driving engagement and customer satisfaction
- → Successfully migrated backend API to AWS SAM, improving response speed by ~750ms and decreasing costs by 70%
- → Led development on drive-thru monitor, building front-end and facilitating integration with the back-end and CV model
- → Created an internal tool to manage customer accounts, email generation, and deployed devices
- → Leveraged technical expertise to support customers, analyze data, recommend solutions, and automate web analytics

BOOZ ALLEN HAMILTON | Data Scientist
August 2018 – December 2020 | D.C. Metro

- → Developed custom schedule optimization algorithm using Python to efficiently migrate IT systems to the cloud
- → Analyzed and optimized a demand response scheme for an FBI client to reduce energy consumption and minimize costs
- → Served as a war gaming analyst for the Office of the Secretary of Defense simulating missile guidance systems
- → Developed custom web-enabled, interactive dashboards levering D3.js to communicated results of analysis to leadership

LUCID SOFTWARE | Data Analyst Intern
June 2017 – August 2017 | Salt Lake City, Utah

- → Analyzed product usage data to understand user behavior and make recommendations to increase product utilization
- → Preformed clustering analysis using R to diagnose user retention issues and promote new user characterizations
- → Leveraged Tableau to create company-wide dashboards describing user activity to inspire product development

PROJECTS

FORMULA 1 FANTASY APPLICATION

- → Full-stack web application built on AWS Amplify for my friends and I to try to predict race outcomes each week. ReactJS front-end with a serverless backend leveraging Cognito, GraphQL, and DynamoDB

SCHOOL SCHEDULE OPTIMIZER

- → Built a schedule optimizer with Python and SCIP for a local middle school. It ingests student course preferences, as well as teacher, room, and graduation requirement constraints to create a master schedule as well as schedules for each student

SKILLS

LANGUAGES

Python • JavaScript • HTML • CSS • SQL • R • Julia

LIBRARIES/FRAMEWORKS

React • Node.js • D3.js • Pandas • NumPy • SciPy • Scikit-Learn • TensorFlow • Keras • PyTorch • Flask • MatPlotLib • Plotly

TOOLS/PLATFORMS

Git • Docker • Linux • Gurobi • SCIP • AMPL • CPLEX • LaTeX

AWS:
EC2 • Lambda • DynamoDB • S3 • ElasticBeanstalk • Kinesis • Amplify • Cognito • SAM • Code Pipeline • ECR • AppSync

GCP:
App Engine • Firestore • CloudFunctions • Cloud Scheduler • Computer Engine

EDUCATION

CORNELL UNIVERSITY

M.Eng in Operations Research
May 2018
College of Engineering
Cum. GPA: 4.1 / 4.3

B.A. in Mathematics and and Economics
May 2017
College of Arts and Sciences
Cum. GPA: 4.0 / 4.0