




Kenny Lipke


Full Stack Engineer

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SKILLS

LANGUAGES

Python • JavaScript • HTML •
CSS • SQL • R

LIBRARIES/FRAMEWORKS

React • Node.js • D3.js •
Pandas • NumPy • SciPy •
PyTorch • Flask

TOOLS/PLATFORMS

Git • Docker • Linux • Gurobi •
L^AT_EX

AWS:

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

GCP:

App Engine • Firestore •
CloudFunctions • Compute
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

HOBBIES

Aviation

Private Pilot Single Engine
Land, Single Engine Sea,
Rotorcraft

Athletics

Skiing, Running, Cycling, Hiking




















History

Avid reader of history and
biography

EXPERIENCE






HELLOMETER | FOUNDING ENGINEER

December 2020 – December 2022 | 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 actively reaching 90% of customers   
- 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 leveraging D3.js to communicate 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  
- Performed 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 