# Kenny Lipke

# Full Stack Engineer

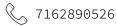


kennylipke.com









#### 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 • **LAT<sub>E</sub>X** 

AWS:

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

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

biography

Private Pilot Single Engine Land, Single Engine Sea, Rotorcraft Athletics Skiing, Running, Cycling, Hiking

Avid reader of history and

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
- → 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 communicate results of analysis to leadership 3

# 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 (R)
- → 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 🦆