

KARL NORTHROP

📍 SomeCity, ST 📧 email@email.com 📞 123-456-7890
🌐 linkedin.com/in/abc123456789 🐙 github.com/karlNr

EDUCATION

Master of Science

Computer Science

Georgia Institute of Technology
Jan 2020 – Present 📅
4.0 GPA

Graduate Certificate

Computer Science Foundations

Kennesaw State University
May 2019 📅
4.0 GPA

Bachelor of Science

Chemical Engineering

Texas A&M University
summa cum laude, May 2012 📅
3.94 GPA

EXPERIENCE

Project & Process Engineer

Audubon Engineering

2016 – 2020 📅
SomeCity, ST

O&G Technology Consultant

OTM Technology

2016 – 2016 📅
SomeCity, ST

Process Engineer

W.S. Nelson

2012 – 2016 📅
SomeCity, ST

GRADUATE COURSEWORK

GaTech | KSU

Machine Learning for Trading
Artificial Intelligence for Robotics
Software Development Processes
Mathematical Structures for C.S.
Database Design
Datastructures & Algorithms
Computer Architecture & Op. Sys.
Foundations of Programming

SUMMARY

TODO - revise temp filler text/section titles/proj details below; more filler text to test word wrapping. Last sentence of summary section to test a third line if needed; test page breaks & review margins.

PROJECTS

CHEMICAL ENGINEERING | PROFESSIONAL

Ethylene Facility Expansion

Hysys

- Led Process Engineering effort to debottleneck and expand major ethylene terminal
- Responsible for process design, optimization, and sizing of capital assets
- Primary engineer from front-end engineering design phase to Issue for Construction

Offshore Separator Package

Hysys

- Designed and developed 500k barrel/day separator for joint BP & Shell effort
- Led process engineering effort from conception to final shop inspection

SOFTWARE DEVELOPMENT | ACADEMIC

ML Stock Trader

Python / Pandas

- Built a market simulator to process pricing data, orders, and produce portfolio metrics
- Researched stock indicators and tested with manual logic strategy to establish a baseline
- Used machine learning techniques to develop a strategy learner using Random Forest & Bag Learners

JobRank Application

Android / Java / SQLite

- Worked with a team to develop UML, Design & Description documents per Project Specification
- Developed job tracking application to rank various job offers for comparison

TextModifier Utility & Library

Java / JUnit

- Used Test Specification Language to develop JUnit tests to provide sufficient coverage
- Wrote a command line utility and java library allowing the user to modify text based on several option and arguments

Mars Glider

Python / Numpy

- Markov AI algorithms to allow Glider craft to navigate randomly generated fields of obstacles
- Developed SLAM algorithm to solve warehouse problems to optimize paths for highest reward

DATABASE APPLICATIONS | FREELANCE

DB Cranes – Inspection Tracking

Access

Thomas Reprographics – Pipe Yard Inventory Tool

Access