NICHOLAS KOCUREK

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EDUCATION

CARNEGIE MELLON UNIVERSITY, PITTSBURGH, PA   AUG 2021 - PRESENT

- Computer Science Major
- QPA: 4.0 / 4.0, Dean's List: Fall 2021-present
- Coursework
  - Current: Real Analysis, Parallel and Sequential Algorithms, PL Theory, Probability
  - Completed: Natural Language Processing, Intro to Computer Systems, AI Representation & Problem Solving, Great Ideas in Theoretical CS, Functional Programming, Principles of Imperative Computation, Mathematical Foundations of CS

- Expected Graduation: Spring 2025

WORK EXPERIENCE

DATA SCIENCE INTERN, CLOUD 9 PERCEPTION, ARLINGTON, TX   DEC 2019 - JUN 2021

- Analyzed data from sensors & machine learning models applied on logistics automation robots using Python, AWS, & Google sheets in order to improve the hardware setup and software efficacy

CS INTERN, LOCKHEED MARTIN, FT. WORTH, TX   JAN 2021 – MAY 2021

- Collaborated on team developing functions for a proprietary stress analysis tool in Swing and NetBeans environments

FOUNDER AND OWNER, METROPLEX HONEY, ARLINGTON, TX   MAR 2018 - AUG 2021

- Maintained 15 hives, sold honey and bee products, ran business, advertising, website, and advertising

RESIDENT ADVISOR, CMU PRE-COLLEGE, PITTSBURGH, PA   JUN 2022 - AUG 2022

- Supervised and planned residence experience for high school students in CMU summer programs

TEACHING ASSISTANT, CMU 15251, PITTSBURGH, PA   AUG 2022 - PRESENT

- Teach material through recitation lectures and office hours, grade homework, and mentor students

PROJECTS

ROBOT CODE, MARTIN HIGH SCHOOL FIRST & BEST TEAMS

- Algorithms for motor position control, IMU navigation, vision tracking, and encoder based autonomous driving using Java, robotC, and Simulink (won BEST Robotics Simulink Design Award)

QA/QG SYSTEM, CMU 11411 PROJECT

- Question answering and question generation system using BERT (in Python)

SPECTRAL CLUSTERING ALGORITHM, CMU 21241 PROJECT

- Groups unlabelled data using spectral clustering on a graph similarity matrix

PROGRAMMING LANGUAGES

Java, C, Python, SML, Rust, HTML, CSS, JavaScript