Nick Strohmeyer

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Education

M.S. Electrical & Computer Engineering, University of Te xas at Austin — Jun 2022 - Present
GPA: 3.95

B.S. Mathematics, University of San Francisco — Sep 2016 - Dec 2018
GPA: 3.74, Magna Cum Laude
Minor in Philosophy

Professional Experience

Software Engineer Intern, Johns Hopkins APL — Laurel, MD — May 2023 - Aug 2023
- Wrote continuous time PDE-solver-based path planner for autonomous motion planning application as a modular, shareable cpp package
- Created python applications for GPS data visualization, probabilistic planning and network analysis

Data Scientist Intern, Empower — Greenwood Village, CO — Jun 2021 - Aug 2023
- Designed and developed interactive, executive-facing dashboards end-to-end for kyey operational insights
- Developed automation scripts to eliminate tedious data entry and emailing system and streamlined my manager's workflow

Data Insights Engineer, Spectrum — Greenwood Village, CO — Jul 2021 - Jun 2022
- Leader of several critical metric inflations analyses leading to production patches and stabilized metric data during rollout of new app designs
- Developed python scripts and dashboards which created original insights into maintenance of backlogged analytics issues
- Wrote automated testing scripts and jira documentation to verify correctness of data point implementation and to share key design features across teams

Digital Marketing Analyst, Quinstreet — Foster City, CA — Jun 2019 - Oct 2020
- Optimized digital media campaigns contributing to over 150% growth with top three clients
- Led statistical analysis, data verification in A/B tests for a key proprietary site generating growth in user engagement and site revenue
- Built automated dashboards and forecasting tools using tableau, sql, and excel

Skills / Technologies

Programming / Development
Python, C/C++, Java, Matlab, Julia, Pytorch, Linux (Ubuntu), Docker, Git, Bash, Ros

Analytics/ General
Excel, Tableau, Wireshark, Streamlit, No-Sql, Sql, RDBMS, MS Office/ Power Apps /Sharepoint

Selected Projects

Semi Autonomous Framework for Surgical Application (ICRA 2024) — Jan 2023 - Present
- Our system learns real-time policies for deformable tissue manipulation in the context of minimally invasive robotic surgery (MIRS) using computer vision and online optimization methods

Gaussian Splat Compression (Course Project) — Fall 2023
- We used an autoencoder-inspired novel design to reduce file sizes for compressed 3D scene rendering

Manipulator Control Module (Course Project) — Spring 2023
- Implemented forward kinematics and jacobian optimization using screw theory for manipulator conrol

Video Driven Autonmous Racer (Course Project) — Spring 2023
- We designed a video processing pipeline using opencv to autonomously navigate a racing simulator

Activities

Teaching Assistant, UT Austin Cockrell School of Engineering — Aug 2022 - Present

Graduate Research Assistant, UT Austin Cockrell School of Engineering — Jan 2023 - Present

UT Ice Hockey, American Collegiate Hockey Association — Sep 2022 - Present

Awards

Dr. Brooks Carlton Fowler Graduate Fellowship — Sep 2023

Al F. Tasch, Jr. Memorial Endowed Graduate Fellowship — May 2023

UC Regent's Scholar — Sep 2014