PAUL KOENIG

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LANGUAGES & SKILLS

Programming Languages	Python, Java, C, C#, Ruby on Rails, JavaScript
Frameworks/Libraries	Django, Flask, React, Bootstrap
Database Systems	Microsoft SQL Server, PostgreSQL, MongoDB, SQLite
Skills/Tools	Unix/Linux, Relational Databases, Unit Testing, Git, JIRA, Agile

WORK EXPERIENCE

JPMorgan Chase & Co | Software Engineer Intern   June 2023 - Aug 2023

- Saving team 3 hours of data cleaning each day by development of technology risk prevention dashboard
- Led automation features that decrease human error in technology risk report saving over $70,000/year
- Created web app that allows teams to build customized reports and summaries utilized for sharing updates on technology risk fixes in daily meetings. Developed using React, Flask, and PostgreDB

Freelance | Software Engineering Service   July 2023

- Saving client 60 hours of gathering data each quarter by web scraping program in Python
- Collects data on 7 resorts to track patterns in dynamic room pricing used in forecasting real estate returns

John Deere | Software Engineering Intern   May 2022 - Aug 2022

- Led software overhaul project using C# and Microsoft SQL Server that provides users the ability to manage and configure Software in the Loop simulations of virtual embedded controllers
- Improved caching and logging systems to save users from reconfiguring previously used simulations
- Expanded program capabilities from 1 to 10 different vehicle simulation types

Crown Battery Manufacturing | Engineering Intern   May 2021 - Aug 2021

- Led human-machine interface upgrade project generating lowered inventory costs and maintenance downtime
- Constructed Programmable Logic Controller programming and circuitry for maintenance training panel

PERSONAL PROJECTS

Walk Safe – Student Matching App for Safer Traveling at Night (Python, Flask, MongoDB)
Placed 2nd out of 25 teams in Ohio State University Hackathon

NCAA Basketball Game Prediction Program (Python, PyTorch)
Predicts the winner of a future match at a 73% accuracy tested across 2129 games in the 2022-23 NCAA season
Outperformed season accuracy of the TeamRanking Prediction System (71.2%) after only 2 months of development

So-Vits-SVC AI Voice Generator Input Dataset Automation (Python)
Reduces task of creating a 30 minute dataset of input audio from 1 hours than 5 minutes

Automated Navigation System for Driver Safety (Python, OpenCV)
Developed navigation system utilizing image processing by giving vibrating cues to an arduino in the steering wheel

EDUCATION

The Ohio State University   Expected Dec 2023
Bachelor of Computer Science & Engineering   GPA: 3.5/4.0

LEADERSHIP

JPMorgan Chase & Co. - Active Intern Leadership Councilman
Texnikoi Engineering Honorary - Active Recruiting Chair
Dunn Sports & Wellness Scholars - Prior Intramural Coordinator