Christopher Kok

(765) 413-6666 | pherkok@gmail.com | github.com/chriskok | chronic-coder.com

Education

BACHELOR'S OF SCIENCE IN COMPUTER SCIENCE | PURDUE UNIVERSITY | GPA: 3.97   JAN 2017 - MAY 2019
· Graduated with Highest Distinction (top 3% of graduating class) and a concentration in Machine Intelligence
· Favorite courses: Data Mining & Machine Learning, Data Structures and Algorithms, Web Information Search and Retrieval

Work Experience

LEAD MACHINE LEARNING ENGINEER | COLLINS AEROSPACE (RAYTHEON SUBSIDARY)   JUL 2019 – CURRENT
· Contributing to the full development life cycle of machine learning solutions for various million-dollar aerospace contracts.
· Developing a highly scalable and containerized cloud-based backend infrastructure that serves the FAA's weather camera data collection and analysis system; efficiently processes about 100K images daily
· Building performant ETL data pipelines and frontend interfaces for end-to-end machine learning and analytics systems
· Writing technical specifications based on stated business and technical requirements for projects in several aviation-specific domains (weather forecasting, cabin behavior, pilot health, software requirements, etc.)
· Consulting with clients and subject matter experts to prototype, A/B test, refine, and debug programs to meet needs
· Leading the ML/AI Community of Practice (CoP) – the largest active CoP with 1000+ members and 300+ monthly attendees
· Establishing connections and aligning goals of ML/AI leaders across Collins Aerospace, Raytheon, and UTC

MACHINE LEARNING ENGINEER | REKKU: ANIME RECOMMENDATION SYSTEM   AUG 2020 - CURRENT
· Developing an interpretable content-based anime recommendation API that is integrated with a popular anime recommendation website (www.randomanime.org) averaging 75K unique users monthly
· Implementing an extensive anime knowledge graph with state-of-the-art NLP techniques using gensim and networkx
· Establishing a scalable data ingestion pipeline from multiple anime-specific data sources
· Utilizing FastAPI, Docker, AWS EC2, and REACT to create an efficient and portable prototype web application and API

DATA SCIENCE INTERN | ROCKWELL COLLINS   MAY 2018 – AUG 2018
· Engineered a containerized web application to help student pilots measure their performance individually and against their peers as well as help instructors measure their classes' progress using Flask and Docker
· Developed interactive and dynamic data visualizations of the relevant data with D3.js
· Implemented several machine learning techniques to predict common patterns among students using Keras

Personal Projects

FOUNDER | CHRONIC CODER: EDUCATIONAL MACHINE LEARNING COMMUNITY   SEP 2019 - CURRENT
· Managing a community server of over 600 ML practitioners for meaningful discussions on relevant research and applications
· Producing videos on applied ML advice, guidelines, and personal side-projects with ML applied to unique problem spaces (www.chronic-coder.com, YouTube channel with 60K+ views and 250K+ watch minutes)

TECHNICAL PROJECT MANAGER | CHRONIC CODER ACADEMY (CCA)   JUN 2020 - CURRENT
· The CCA is a fellowship program for beginners to learn by building end-to-end applications
· Leading 4 teams of 3 (UX, Frontend, and Backend) to build new products and improve existing ones every 10 weeks
· Breaking down development projects into tasks and keeping teams on track to ship their products by the end of the program

Skills

· **Languages**: Python, SQL, Java, Javascript, HTML, C#, C, C++, R
· **Tools**: Docker, Cassandra, AWS EC2, S3, Lambda, IAM, Spark, Kafka, Linux, SAS, Matlab, Hadoop, Storm, D3.js, REACT
· **Packages**: Scikit-Learn, NumPy, SciPy, Pandas, Tensorflow, Keras, NLTK, Flask, Jinja, Bootstrap, Jupyter Notebook, FastAPI
· **Machine Learning Specialty**: Natural Language Processing, Recommendation Systems, Meta-Learning