Graham W. Thompson

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Experience

MACHINE LEARNING ENGINEER | PSYMARK | FEBRUARY 2021-PRESENT

- Building core machine learning system for a patented psychological assessment application
- Full stack development using Python, Javascript, Flask, GCP, Flutter

SENIOR SOFTWARE ENGINEER | VARIOUS | OCT 2020-FEB 2021

- Fraud detection engineering for a large social media platform
- Implemented natural language processing pipelines and machine learning models using Python, Kubernetes, SQL, Scikit-learn, BERT
- Built microservices with Flask and Falcon

SOFTWARE ENGINEER | ZYBOOKS | OCT 2018-OCT 2020

- Full stack web development for an educational technology company focused on computer science
- Built features for and maintained platform serving hundreds of thousand of users
- Used C++, Flask, Celery, Redis and Ember to develop a scalable plagiarism detection algorithm and system for programming labs

MACHINE LEARNING ENGINEER | PSYMARK | OCT 2017-OCT 2018

- Implemented back end for psychological assessment application
- Performed feature engineering, trained and deployed machine learning models
- Used Flask, Scikit-Learn, Celery, Docker and other technologies to design, implement and test the application across the full stack including the core machine learning component

INFORMATION SYSTEMS DEVELOPER | UC MERCED | APR 2016-JUN 2017

- Designed and developed information systems to meet staff and faculty needs including university wide scheduling systems and data interfaces
- Developed tools and packages to integrate university systems such as identity management, authorization, and key database systems
- Used Flask, SQLAlchemy, jQuery, AWS and other web technologies to implement new services
- Maintained existing data center hardware and Linux server infrastructure

MACHINE LEARNING CONSULTANT | PSYMARK | DEC 2014-MAR 2016

- Design and patent writing on machine learning system for psychological assessment

Education

- MS in Social Sciences (emphasis Cognitive & Information Science), UC Merced | 2014
- BS in Cognitive Science (magna cum laude), UC Santa Cruz | 2011

Skills & Abilities

- **Languages:** Python, C, C++, Javascript, Rust, Bash, SQL
- **Tools/Frameworks:** Flask, Falcon, Tornado, Ember, jQuery, SQLAlchemy, Celery, Numpy, Pandas, Scikit-Learn, TensorFlow, BERT
- **Other:** Git, Linux, Nginx, Redis, AWS, GCP, Redshift, Docker, Kubernetes, Jira