

# Sataporn Worasilpchai

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## TECHNICAL SKILLS

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**Languages:** Python, Javascript, HTML/CSS, SQL

**Frameworks:** Node.js, Express, FastAPI

**Developer Tools:** Git, Cypress, VS Code, AWS, Colab, ADB, Appium

**Libraries:** pandas, NumPy, Matplotlib, React, Redux

## EXPERIENCE

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### Sitkum Systems

February 2023 – Present

*Applied Research Scientist*

*Seattle, WA*

- Developed a synthetic data creation process for a Navy research proposal utilizing the stable diffusion model.
- Implemented word2vec algorithm on large data sets for market research using NumPy, SciPy, and Gensim.

### Whitepages

May 2022 – July 2022

*Applied Research Scientist Contract*

*Seattle, WA*

- Applied statistical methods to large data sets to i) measure results and outcomes, ii) identify causal impacts and attributions, iii) generate insights, graphs, and maps to support business decisions.
- Created a data pipeline for ingesting and formatting data for analysis using Spark, python, and S3.
- Validated hypothesis on data sets by using 3rd party data models and population segmentation.

### Likewise Inc.

July 2019 – October 2021

*Quality Analyst*

*Seattle, WA*

- Executed end-to-end testing plans for Likewise web, mobile, and TV apps per business requirements and functional specifications.
- Studied user behavior and action to generate key performance metrics for the business and dev team.
- Developed web automation tests to increase confidence and reduce test cycle time using Cypress and JavaScript.
- Wrote Python scripts to validate 3rd party data accuracy using Python and Postman.

### U.S. Bank

June 2018 – July 2019

*Jr. Software Quality Engineer*

*Atlanta, GA*

- Wrote and executed manual test plans per product owner.
- Developed automated tests for Android devices running U.S. Bank's application via Appium, ADB, and Java.
- Created a desktop application to accelerate ADB command line execution on Android-based payment devices.

### Georgia Tech Office of Information Technology

May 2017 – May 2018

*Student Assistant*

*Atlanta, GA*

- Installed and decommissioned servers.
- Addressed and resolved customer requests and complaints.

## PROJECTS

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### MOOC Recommender | *Python, FastAPI, React, Docker, Heroku*

January 2023 – Present

- As an extension to CSE-6242 (Data Science and Visual Analytics) group project, a React web app w/ FastAPI backend was created to allow users to search and build a list of courses from online platforms (Udemy, Edx, Coursera, etc).
- Implemented the word2vec method on 150K online course titles and descriptions. Analyzed course similarity by calculating its NP average vector.

### Rack and Strap | *React, Express, MongoDB, Node.js, Redux*

April 2023 – Present

- Developed and implemented responsive and user-friendly front-end interfaces using React.
- Integrated and coordinated the front-end and back-end components to deliver end-to-end functionality, ensuring a smooth user experience and efficient data flow within the application.

## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA

*Master of Science in Computer Science (Machine Learning)*

*January 2022 – Present*

*Bachelor of Science in Computer Science*

*August 2016 – May 2018*

*Bachelor of Science in Industrial and System Engineering*

*August 2011 – May 2016*