

# MELANIE BAYBAY

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## Skills

**Proficient:** Python, Java, MySQL, MongoDB, Microsoft SQL Server

**Familiar:** Javascript, Vue.js, React.js, D3.js, Hadoop, Spark, Solidity, Tensorflow

## Experience

**IT Rotation Technical Associate** **Kaiser Permanente** **July 2018 - Present**

3rd Rotation: Cloud Application Platforms

- Enabling developers to deliver cloud native applications by managing, configuring, and testing platform as a service solutions

*Skills & Tools:* IBM Cloud, Cloud Foundry, Jenkins

2nd Rotation: Kaiser Permanente Research Bank

- Built an ETL pipeline for the KP Research Bank to integrate electronic health records, health surveys, and lab information system data of consented participants from all eight of Kaiser Permanente's regions for precision medicine research

*Skills & Tools:* Microsoft SQL Server, Python, SAS

1st Rotation: Strategic Technologies, Blockchain

- Developed a decentralized application that utilized blockchain technology, APIs, and web components for a drug supply chain proof of concept

*Skills & Tools:* Node.js, React.js, Meteor, RESTful API, Postman, Ethereum, Solidity

**Computer Science Tutor** **University of San Francisco** **Aug 2017 - May 2018**

- Trained computer science students in improving their software development and debugging techniques

**Instructor** **Girl Tech Power Summer Workshop** **Aug 2017**

- Taught the fundamentals of programming to 54 middle school and high school girls
- Led a hackathon that encouraged the girls to envision and build the future of education

**Laboratory Assistant** **Alexo Therapeutics** **Oct 2015 - Aug 2016**

- Purified plasmid DNA from yeast cultures and maintained cell lines for immuno-oncology experiments

**Administrative Assistant** **One Medical Group** **June 2015 - Aug 2015**

- Served as a liaison between patients, insurance companies, and pharmacies

## Software Projects

- Cohort Med:** A web application for data analysts to build patient cohorts from electronic medical record data and export them as a de-identified dataset for medical research

*Tools:* Vue.js, Node.js, Express.js, MySQL

- Wellness Tracker:** A web application for individuals to track and reflect on their wellness activities.

*Tools:* Vue.js, Node.js, Express.js, MongoDB

## Publications

*Wilson, J.D., Baybay, M., Sankar, R., and Stillman, P. **Multi-node2vec: Fast Feature Engineering for Multilayer Networks.***

(Submitted. Preprint: <https://arxiv.org/pdf/1809.06437.pdf>, Code: <https://github.com/jdwilson4/multi-node2vec>)

## Education

**Master of Science, Computer Science** **University of San Francisco** **Aug 2016 - May 2018**

**Bachelor of Science, Biology** **University of San Francisco** **Aug 2011 - May 2015**

