

LANGUAGES AND TECHNOLOGIES

- **Proficient:** Python, scikit-learn, Pandas, NumPy, SciPy, Seaborn, JavaScript, AngularJS, Node.js, SQL, MySQL, Docker, Machine Learning (K-Means, Random Forest, SVM, Decision Tree), AWS (EC2), HTML5, CSS3, Git, TDD
- **Exposure:** R, Cassandra, Hadoop, Java, Flask, ReactJS, D3.js, MongoDB, PostgreSQL, Tableau, Gulp, Jasmine

PROFESSIONAL EXPERIENCE

University of Washington | Software Engineer, Research Assistant | Seattle, WA

2015 – 2017

- Performed data analysis on genomic sequences locating patterns in RNA using Python, scikit-learn, Seaborn, Pandas, Matplotlib, and R, leading to new insights and improved accuracy in Machine Learning models to 93%.
- Created GUI for Docker utilizing No-VNC, Python and Nginx to containerize applications, making data analysis software portable and easy to set up on cloud based services, reducing deployment time by 2X.
- Engineered data pipelines and containerized workflow in Docker using Python, Orange ML, and Shell Scripting, ensuring reproducibility of test results, with system now being used by 5 major research institutes.

Kahootz | Software Engineer | Los Angeles, CA

2016 – 2016

- Developed user registration, login system and chrome extension with JavaScript, Node.js, Express, and MySQL with Facebook and Google API integration, reducing email duplication in database by over 33%.
- Created user dashboards for entire platform in JavaScript and AngularJS, improving page load times by 2X.
- Deployed system on AWS (EC2 instance for the Node.js server and RDB for MySQL) using JavaScript and Shell Scripting, and Nginx as a load balancer between 5 separate instances.

Qikspace | Software Engineer | Seattle, WA

2016 – 2016

- Performed data analysis on 400GB of user data (100+ million rows) using Python, Tableau, scikit-learn and Matplotlib, improving UX in mobile platform by over 20%.
- Built data pipelines utilizing Python, Java, Docker and Shell Scripting to automate data cleaning process by creating rules to increase productivity of engineering team, saving company over \$22,000 annually.

Baud Technologies | Software Engineer

2014 – 2015

- Constructed customized features for 15+ new applications utilizing JavaScript, jQuery, HTML5 and CSS3.
- Executed and managed network implementation for domestic airline company, configuring CUCM and CME servers to support 2000+ users for daily operations.

Shining Armour | Software Engineer

2012 – 2014

- Designed web apps for 10+ clients in JavaScript, Python and HTML5, and jQuery, increasing revenue by 10%.

EDUCATION

M.S. Computer Science, University of Washington

2017

B.S. Computer Science, EIILM

2014

PROJECTS

Website Categorization | Data Scientist | [code](#)

2017

Created machine learning model for categorizing websites spanning multiple industries based on relevance.

- Architected web scraper to collect data about site using Python and BeautifulSoup collecting 10GB+ in MySQL.
- Implemented Naive Bayes and Random Forest for classifying website categories and achieved 91% accuracy.

User Profiling with Social Media Generated Content | Data Scientist | [code](#)

2016

Implemented machine learning models to predict age, gender, and personality traits from Facebook user data.

- Performed data analysis on Facebook user data for 1000+ users in Python to decide machine learning models.
- Implemented an ensemble of 6 machine learning algorithms with Python, achieving 70% prediction accuracy.

PUBLICATIONS

BioDepot-Workflow-Builder, *bioRxiv*, [link to code](#)

2017

GUIDock-VNC, *Gigascience*, [link to code](#)

2016