

LAURENCE PALMER

Email: laurencepalmer@berkeley.edu, Github: github.com/laurencepalmer

EDUCATION

University of California, Berkeley Master's of Engineering, Industrial Engineering and Operations Research	Aug. 2022 - May 2023 GPA: 3.93
University of California, Santa Barbara Bachelor's of Science, Applied Mathematics; Bachelor's of Arts, Economics Awards: High Honors, Letters and Sciences Honors Program, Academic Excellence Award, Gretler Fellow	Sep. 2017 - Jun. 2021 GPA: 3.85

EXPERIENCE

Software Engineering Intern Veryfi, Platform Group <ul style="list-style-type: none">Released Tensorflow models into production, contributed to regex database for training validationBuilt web scrapers to collect training data using seleniumCreated an algorithm to read and parse magnetic ink characters on checks into basic componentsDeveloped new microservices ad hoc, e.g. automatic personally identifiable information redaction from pdfsBuilt microservice sandbox for stress testing	Feb. 2022 - Aug. 2022
Co-Founder, Chief Financial Officer Alt. Labs, Inc. (Generous Lending) <ul style="list-style-type: none">Pitched to Venture Capital firms such as Plug and Play and 1517 FundCreated marketing materials, pitch deck, and financial and user adoption projectionsCollaborated with Fenwick and West to create Terms of Service and discuss compliance strategies	Jun. 2019 - Dec. 2020
Finance Analyst Intern Intuitive, Data and Digital Group <ul style="list-style-type: none">Analyzed and created adoption curve library for imaging/vision instruments on Da Vinci SystemsPerformed product cost analysis for existing data and digital products such as MyIntuitiveCreated and maintained Tableau dashboards to monitor demand and marketing metricsUsed Monte Carlo simulations to model product adoption and real options analysis	Jun. 2020 - Aug. 2020
Research and Development Intern Abbott Diagnostics, Reagent Group <ul style="list-style-type: none">Performed QC tests on Alinity HQ & Emerald 22 instruments by aliquoting and testing blood samples, and summarizing resultsAnalyzed sample data compiled from internal and global Alinity HQ database for use in clinical reporting to regulatory agencies using Python and Minitab	Jun. 2019 - Aug. 2019

SELECTED PROJECTS

Predicting Capital Demands Using Neural Networks <ul style="list-style-type: none">Implemented a multilayer perceptron (MLP) and LSTM recurrent neural network to predict future capital demands from private equity/venture capital general partners using historical data from Public Employee Retirement System of IdahoAchieved an mean squared error of 0.05% (MLP) and 0.02% (LSTM) relative to capital call magnitude on validation set
Pullup <ul style="list-style-type: none">Created a web and iOS application for planning carpool ridesUsed Django to build web app and APIs along with a pub/sub architecture leveraging Kafka, MongoDB, and OpenStreetMaps for route trackingBuilt personal cloud utilizing only spare laptops, 8-port switch, and ethernet cables
Tree-based Model for Anemia Prediction (Abbott Diagnostics) <ul style="list-style-type: none">Created a CART decision tree model to predict the presence of microcytic, microcytic, and sickle cell anemia based on CBC data for diagnosis at point of careAccuracy of ~95% on validation set

LEADERSHIP, SERVICE & VOLUNTEERING

Cub Support <ul style="list-style-type: none">Tutored mathematics and reading comprehension to assist low-income students with remote learning during COVID	Oct. 2020 - Jun. 2021
Greeks 4 Kids <ul style="list-style-type: none">Organized fundraisers for school supplies and toy drops to local organizations (StoryTellers Children's Center, Boys and Girls Club of Santa Barbara) with annual donations over \$10,000	Apr 2018 - Jun. 2021

SKILLS

Languages: Python, Matlab, SQL, Swift, LaTeX, HTML/CSS

Libraries/Frameworks: PyTorch, Matplotlib, Seaborn, Pandas, Scipy, Numpy, Selenium, Django, Flask, Kafka, pytest, Jekyll, Docker, Terraform, Kubernetes, Git

Tools: Linux, Tableau, Minitab, Excel, Google Suite, GitLab, Jira

Cloud: AWS, Linode

Databases: Postgres, MySQL, MongoDB