# Eric D. Stevens

**Objective:** Creative and hard working problem solver looking to join an innovative team and build a career in the machine learning economy


## CONTACT

EricDStevens@outlook.com
(310) 999 - 3742
Portland, Oregon


## WORK EXPERIENCE

### Synopsys Software Engineer, II

Hillsboro OR, 6/19 - 12/19 & 6/20 - 9/20 (Intern), 9/20 - Present (Full time)

Authored SerDes Python API, a programmatic interface into the compiled MATLAB product that enables customers to automate silicon validation tasks

Proposed and designed a MATLAB compiler dependency management system that cut build time 5-10x and enabled inexperienced team members to perform builds

Rewrote and extended FTDI JTAG application underlying all host PC to test hardware communication, doubling the speed of individual register read/writes and enabling users to combine commands into long vectors which ran 25x faster

### Whitehorse Analytics Data Science Contractor

Portland OR, April 2019 - July 2019

Performed Bayesian modeling of physical oil refinery components for survival analysis and maintenance forecasting using Python's PyMC3

### Northrop Grumman College Technical Intern, Manhattan Beach CA

Manhattan Beach CA, July 2015 - September 2015

Developed a data visualization application in MATLAB that parsed telemetry data files, enabling users to quickly display and manipulate data streams

## EDUCATION

### Oregon Health & Science University, Portland OR

M.S. Computer Science, Focus in Machine Learning

September 2018 - September 2020, GPA: 3.80

**Relevant Coursework:** Statistics, Data Science, Machine Learning, Deep Learning, Artificial Intelligence (expert systems), Time-Series, Databases, Cluster Computing

### Oregon State University, Corvallis OR

B.S. Electrical & Computer Engineering, Minor in Computer Sci.

September 2012 - June 2017, GPA: 3.56

**Relevant Coursework:** Machine Learning, Software Testing, Algorithms, Multimedia Systems, Signals & Systems, Networking, Computer Architecture

## EXAMPLE PROJECTS

**Data Parallel Deep Dive:** Experimental report demonstrating why using more GPUs is not always better for data parallel neural network training in PyTorch

**Extending the Employee Database:** DBMS course final project demonstrating proficiency utilizing PostgreSQL and leveraging Pythons PsycoPG2 library

**PMU Arboretum:** Using hardware performance counter events for decision tree based classification of processes running on a CPU

## SKILLS

Software Engineering

Data Science / Engineering

Machine / Deep Learning

Digital Signal Processing

Computer Networks

Computer Architecture

## LANGUAGES

| | |
|---|---|
| Python | *** |
| Matlab | *** |
| SQL | ** |
| C/C++ | ** |
| JavaScript | * |
| Verilog | * |

| | |
|---|---|
| *** | Experienced |
| ** | Effective |
| * | Exposure |

## TOOLS

Windows / Linux

Git / Perforce / Jira

VSCode / PyCharm / Jupyter

Scikit Learn / PyTorch

MATLAB App Designer

PostgreSQL

Node / ReactJS

## LINKS

**Github:**
github.com/Eric-D-Stevens

**Linkedin:**
linkedin.com/in/Eric-D-Stevens