

EXPERIENCE

- **Facebook** Menlo Park, CA
Software Engineer (Machine Learning) *August 2018 - Present*
 - Developing highly scalable classifiers and tools leveraging machine learning, data regression, and rule-based value models
 - Suggesting and delivering new ranking directions for video on feed, while delivering ranking optimizations
- **Facebook** Menlo Park, CA
Software Engineer Intern *Summer 2017*
 - Engineer on Feed Machine Learning working on video chaining
 - Build a database of new user-behavior features extracted from web front end (PHP and Python)
 - Refresh and retrained ranking model with newly extracted features (C++ and Python)
- **MIT Lincoln Laboratory** Lexington, MA
Research Intern *Summers 2015, 2016*
 - Trained SVM and Random Forest-based models to E. Coli viability on degrees of genetic recoding
 - Parallelized computationally expensive 3D biological modeling software on LLGRID large compute cluster
 - Organized and lead team of other intern engineers to begin development on wearable technology for short range encrypted data transfer
- **Grinnell College AppDev** Grinnell, IA
Android Developer *Oct. 2015 - Dec 2016*
 - GrinnellDB - an android application serving as a student database
 - Events - an android application for on campus events

EDUCATION

- **Grinnell College** Grinnell, Iowa
B.A. Computer Science, with Honors, Major GPA: 3.97, Cum GPA: 3.72 *Aug. 2014 - May 2018*
- **Academic Honors and Awards**
 - Grinnell College Trustee Honors Scholar Merit Scholarship
 - HackMIT 2017 Machine Learning Community Prize – Sponsored by Baidu
 - HackMIT 2016 Best project under 4Kb – Sponsored by Datto
- **Selected Coursework**
 - Operating Systems, Bayesian Statistical Analysis, Comp. Vision, Analysis of Algorithms, Real Analysis

PROJECTS

- **RNN-LSTM-CTC for Robust Reading:** Implement a lexicon-restricted CTC decoder within TensorFlow backend to optimize predictions for ocular text recognition tasks in which a predefined dictionary is known. (C++, Python)
- **A Framework for Predicting Design Failures in Engineered Genetic Codes:** Predictive modeling of E. Coli viability in response to various degrees of genetic recoding doi: <https://doi.org/10.1101/363812>.

TECHNICAL SKILLS

- **Languages:** C++, Python, Haskell, Hack/PHP, R **Technologies:** Presto, Hive, SQL, Pytorch

PERSONAL INTERESTS

- **Grinnell College Varsity Cross Country, Track & Field:** Placed multiple times in conference meets
- **Pan Massachusetts Challenge:** 6 year rider, and raised over \$6,000 for Dana Farber Cancer Research Int.