

# Noah Golmant

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## EDUCATION

**B.A. - Computer Science; B.A. - Mathematics**  
**University of California, Berkeley Class of 2019**  
**GPA: 3.87 (4.0)**

**Selected Coursework:** Machine Learning, Neural Computation, Artificial Intelligence, Linear Algebra, Data Structures, Discrete Math and Probability Theory

**Extracurricular Activities:** Machine Learning at Berkeley

## WORK EXPERIENCE

**Uhana, Inc. – Palo Alto, CA**

**Data Scientist Intern – November 2016 — Present**

- Implemented parallel random forests algorithm for Apache Spark to achieve linear speedup in total training time.
- Developing deep reinforcement learning techniques for resource management in cellular networks.

**AMPLab – UC Berkeley**

**Undergraduate Researcher – February 2016 — Present**

- Implemented multi-stage natural language processing pipeline using AMPLab's KeystoneML framework.
- Developed incremental model update API to incorporate new data into trained models and track model updates in end-to-end pipelines.
- Developed effective incremental model update algorithm to achieve linear speedup in training time for online model updates.

**CSRA, Inc. - Dahlgren, VA**

**Senior Assistant: Application Developer - June 2015 — August 2016**

- Created internal website to automate code inspection procedures for a team of twenty employees.
- Ported and optimized legacy C back-end to interface with Java front-end through JNI.
- Modified NASA WorldWind virtual globe source code for intelligent map caching in offline deployments.
- Modified build system to limit decompilation ability in a foreign deployment scenario.

**Side Projects - October 2015 — Present**

- OpenBrain project: developing a framework for massively asynchronous deep reinforcement learning.
- Developed distributed neural tensor network in Scala for multi-entity relationship questions.
- Created hyperdimensional computing program for efficient MNIST digit classification.
- Automated deployment of Apache Spark cluster to Amazon EC2 instances with bash scripts.
- Implemented distributed news article web crawler with adaptive rule-based and Bayesian filters.

**Independent Software Developer, Contractor - Jan 2015 — November 2015**

- Lead developer for tax record digitization software. Utilized OpenCV pre-processing, Tesseract OCR API, spatial hashing and fuzzy logic pattern recognition to organize tax records, client info, etc.
- Developed a political news bias analyzer using term frequency space model and sentiment analysis.

## ADDITIONAL SKILLS

- **Programming Languages/Platforms:** Python, Scala, Java, C/C++, SQL, Lisp, MIPS, Hadoop, Apache Spark, shell scripting.
- **Software:** Git, SVN, Maven, JetBrains, Amazon EC2.
- **Proficiencies:** Machine learning, data science, desktop application development.