

# Chris Barrick

SOFTWARE ENGINEER

Athens, GA

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## Skills

**Languages** Python, Prolog, Java, Go, JavaScript (Node.js), SQL, Shell  
**Platforms** Google Cloud, Anaconda, Debian/Ubuntu, Arch Linux  
**Technologies** Git, Scikit-learn, PyTorch, Tensorflow, Spark

## Experience

### UGA Institute for Artificial Intelligence

RESEARCH ASSISTANT

Athens, GA

Aug. 2016 - May 2017

- Developed predictive models for solar irradiance from 2TB of historical forecast data.
- Developed a data ingestion pipeline for NOAA weather forecasts in Python with xarray and netCDF.

### Hayver

PROLOG DEVELOPER AND INTERN

Atlanta, GA

May 2017 - Aug. 2017

- Advised business leaders in the transition from a legacy Prolog system into a Java-based microservice architecture.
- Drafted a data model with support for dynamic objects on a SQL backend.

### Digital Envoy

SOFTWARE DEVELOPMENT INTERN

Atlanta, GA

May 2016 - Aug. 2016

- Developed a system on Hive to alert for suspicious changes to weekly database releases.

### Engage

FRONTEND WEB DEVELOPER

Clayton, GA

Jul. 2013 - Jun. 2014

- Prototyped mobile apps using web technologies with Apache Cordova.

## Education

### University of Georgia

M.S. ARTIFICIAL INTELLIGENCE

Athens, GA

Aug. 2016 - May 2019

- Thesis: *Local Solar Irradiance Prediction from Regional Numerical Weather Forecasts.*
- Interdisciplinary coursework in Computer Science, Linguistics, and Philosophy.
- **Courses:** Knowledge Based Systems, Generative Syntax, Philosophy of Language, Algorithms, Decision Making Under Uncertainty, Biomedical Informatics, Data Science II, Applied Machine Learning, Advanced Data Analytics, Data Science Practicum

### University of Georgia

B.S. COMPUTER SCIENCE / B.A. COGNITIVE SCIENCE

Athens, GA

Aug. 2011 - Dec. 2015

- Double major with an area of emphasis in Artificial Intelligence.
- Developed a conditional term-rewriting system in Prolog as a directed study in AI.
- **Select courses:** Model Theory, Symbolic Programming, Evolutionary Algorithms, Artificial Intelligence, Linear Algebra, Multivariable Calculus, Cognitive Psychology, Philosophical Psychology, Computer Networks, Databases

## Organizations

2018 **CSIP: Computer Science Interview Prep.** Vice President

Oct. 2018 - May 2019

2018 **DELUG: Deep Learning @ UGA.** Officer

Nov. 2017 - Apr. 2018

## Publications

2017 **Solar Radiation Prediction Improvement Using Weather Forecasts.** Sanders, Barrick, Maier, Rasheed.

IEEE ICMLA