Chris **Barrick**

Software Engineer · Data Scientist

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 — *Athens, GA*

Research Assistant — *Aug. 2016 - PRESENT*

- 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 — *Atlanta, GA*

Prolog Developer and Intern — *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 — *Atlanta, GA*

Software Development Intern — *May. 2016 - Aug. 2016*

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

Engage — *Clayton, GA*

Frontend Web Developer — *Jul. 2013 - Jun. 2014*

- Prototyped mobile apps using web technologies with Apache Cordova.

Education

University of Georgia — *Athens, GA*

M.S. Artificial Intelligence — *Aug. 2016 - Dec. 2018*

- 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 — *Athens, GA*

B.S. Computer Science / B.A. Cognitive Science — *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

DELUG: Deep Learning @ UGA — *Athens, GA*

Officer — *Nov. 2017 - Apr. 2018*

- Delivered a presentation on the vanishing gradient problem and its solutions.
- Became an officer in Feb. 2018.

Publications

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