

# Samuel Britt

1467 Hembree Station Dr  
Marietta, GA 30062  
☎ (205) 515 0618  
✉ [samuelbritt@gmail.com](mailto:samuelbritt@gmail.com)  
■ [linkedin.com/in/samuelbritt](https://www.linkedin.com/in/samuelbritt)

## EXPERIENCE

- 2015– **Staff Developer, People Manager**, *athenahealth*, Atlanta, GA.
- Led a team of 7 stateside and offshore engineers in developing and operating a distributed **ETL** pipeline from an **Oracle/Linux** stack into centralized **Microsoft SQL Server** databases.
  - Served as tech lead in stabilizing ETL operations, bringing monthly failure rates from 9% to less than 0.5%.
  - Worked with business stakeholders to prioritize the team's work and communicate project status and projections.
  - Developed several internal tools to improve team productivity, using **Bash**, **Python**, **Perl**, and **Backbone.js**.
  - Designed and developed a query-generating API to service business intelligence applications.
  - Selected to teach 10 new product owners about **Agile Scrum**, and lead a workshop on user story writing.
  - Selected to join a small Scrum team to design athena's next-generation data analytics, using **Snowflake**, a cloud-based MPP database, and **Looker**, a data modeling and visualization tool.
- 2014–2015 **Senior Developer**, *athenahealth*, Atlanta, GA.
- Developed a **T-SQL**-based data transformation framework to allow for rapid extensions of existing data pipelines.
  - Leveraged the framework to rapidly deploy a transformation of our largest data pipelines into a columnar database format, dramatically reducing runtimes for analytics queries.
- 2013–2014 **Developer**, *athenahealth*, Atlanta, GA.
- Data customization and ETL process automation for Analytics, a health care revenue cycle BI tool targeted at large health systems. Utilized the Microsoft BI stack: **SSIS**, **T-SQL**, and **SQL Server**.
- 2012–2013 **Teaching Assistant, Database Systems**, *Georgia Institute of Technology*, Atlanta, GA.
- Taught entity-relationship modeling; advised on database-driven app development using **MySQL** and **PHP**.
- 2009–2011 **Graduate Research Assistant, Materials Simulation**, *Georgia Institute of Technology*, Atlanta, GA.
- Simulated the mechanical response and texture evolution of  $\alpha+\beta$  titanium alloys via multiscale modeling.
  - Implemented thermally activated crystal plasticity model, microstructure generation code, and post-processing routines using **FORTRAN**, **C++**, **MATLAB**, and **Python**.
  - Presented results regularly at the meetings of the Center for Computational Materials Design.
- 2005–2009 **Engineering Co-op, Composites Research**, *Southern Research Institute*, Birmingham, AL.
- Investigated the kinetics of phenolic pyrolysis via thermogravimetry at temperatures up to 1100 °C.
  - Designed facility for high-temperature and high-pressure thermogravimetry and dilatometry.
  - Co-authored a report presented at the 56<sup>th</sup> JANNAF Propulsion Meeting.

## EDUCATION

- 2011–2013 **Master of Science, Computer Science** GPA: 3.7.  
Georgia Institute of Technology, Atlanta GA  
Specialization in Systems Software.
- 2009–2011 **Graduate Research Assistant, Materials Science & Engineering, Mechanics of Materials** GPA: 3.9.  
Georgia Institute of Technology, Atlanta GA  
Modeling and simulation research in the mechanics of  $\alpha+\beta$  titanium alloys.
- 2004–2009 **Bachelor of Science, Highest Honors, Materials Science & Engineering** GPA: 4.0.  
Georgia Institute of Technology, Atlanta GA

## SKILLS & TECHNOLOGIES

Languages: C, Python, Perl, T-SQL, C++, SciPy, Java, JavaScript, Backbone.js, HTML, CSS, MATLAB  
Tools: Git, Perforce, UNIX, SSMS, Jira, SQL Server, Snowflake, Looker  
Concepts: Agile Scrum, Unit Testing, Query Optimization, Data Warehousing, ETL, BI, Database Schema Design, ER Modeling, Healthcare Revenue Cycle, MVC Design, Data Visualization

## SCHOLARSHIPS & AWARDS

- 2015 **Banner Year Award**, for exceptional "stand-out" performance and significant business impact in a calendar year.
- 2014 **Extra Mile Award**, for extraordinary effort, taking on work outside of job scope to help a colleague.
- 2007 **Henry Ford Award**, for the most outstanding academic record in the junior engineering class.
- 2004 **President's Scholarship**, Tech's premier merit-based scholarship awarded to approximately 2% of students.