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Samuel Britt

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 α+β titanium alloys.

2004–2009 **Bachelor of Science, Highest Honors**, *Materials Science & Engineering* — GPA: 4.0.
Georgia Institute of Technology, Atlanta GA

Skills & Technologies

Proficient: C, Python (and SciPy), Perl, SQL, MS SQL Server, Git, Perforce, Unix.
Familiar: C++, Java, JavaScript, Matlab, Bash, Eclipse, Android development.

Experience

2015–present **Staff Developer, People Manager**, *athenahealth*, Atlanta, GA.
- Led a team of 7 stateside and offshore developers in developing and operating a distributed ETL pipeline from an Oracle/Linux stack into centralized Microsoft SQL Server databases.
- Stabilized ETL operations, bringing monthly failure rates from around 9% to less than 0.5%.
- Developed a variety of internal tools to improve team productivity, leveraging shell scripts, Perl, and Backbone.js.
- Developed a data access API and SQL query-generating platform servicing BI applications.
- Selected to join a small Agile Scrum team developing the next-generation data analytics architecture for athena.
- Architected ETL into Snowflake, a cloud-based MPP database, and developed data models in the Looker 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 business intelligence 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.
- Held one-on-one meetings in class of over 240 students to teach concepts such as entity-relationship data modeling and gave technical help in implementing database-driven applications 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 α+β 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 for Computational Materials Design.

2005–2009 **Engineering Co-op, Composites Research**, *Southern Research Institute*, Birmingham, AL.
- Spent five terms performing high-temperature materials research for the aerospace industry.
- Investigated the kinetics of phenolic pyrolysis via thermogravimetry at temperatures up to 1100 °C.
- Co-authored a report presented at the 56th JANNAF Propulsion Meeting.
- Designed facility for high-temperature and high-pressure thermogravimety and dilatometry.

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 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.*