

# Alexander Rao

[arao81@gatech.edu](mailto:arao81@gatech.edu) | (918) 629-1990 | 8943 S Hudson Ave, Tulsa, OK 74137 | US Citizen

Electrical Engineer with experience with software creation and a variety of corporate cultures, as well as in data analytics. Strengths center around software and hardware development and working with a variety of individuals to deliver quality products. Also experienced with POSIX systems, with programming knowledge spanning 18 languages.

## EDUCATION

### Georgia Institute of Technology

BSEE with a minor in CS; Study abroad in France – GPA 3.94/4.00

Atlanta, GA

Expected May 2020

## PROFESSIONAL EXPERIENCE

### Energy Transmissions Engineer for Southern Company

05/17 to Present

- Maintaining and improving transmission methods for Southern Company.

### Ambassador for MathWorks, Inc.

03/17 to Present

- Informing Georgia Tech students about how MATLAB can solve their real-world problems.

### Data Analyst for THG Energy Solutions

12/16 to 04/17

- Analyzed the possible relationship between electricity pricing and carbon emissions.

### Teaching Assistant for MATLAB

08/16 to Present

- Currently teaching MATLAB to Georgia Tech Engineering Students.

### 3D Printing for the Chickasaw Nation

08/16 to 04/17

- Developed 3D printing solutions to print signage and artifact descriptions in Braille for the visually impaired.

### Data Analytics Internship with Experian Health

Summer 2016

- Created software for adding users to their Tableau-based healthcare business analytics system.

### Digital Internship for the Chickasaw Nation

01/16 to 05/16

- Designed a digital library to store cultural and historical documents for use by researchers at the Nation.

### Internship with Stinnett & Associates, LLC

Summer 2015

- Created Applicant and Inventory Tracking systems.

### Research Assistant at the University of Tulsa

Summer 2014

- Studied different epoxies' reactions to high water pressure in a standard deep-water oil pipe.

## LEADERSHIP

### Boy Scouts of America (BSA)

- Eagle Scout and Double Eagle - 2012
- Senior Patrol Leader of Troop 26 in 2013
- Leadership Corp Chairman of Troop 26 in 2013
- Attended Philmont and Sea Base BSA High Adventure Base, 2011 to 2013

## AWARDS & HONORS

- Pat Morris Award – 2015. Awarded to the graduating senior who most exemplifies the school's ideals of honor, loyalty, and courtesy, as well as having the highest academic achievements.
- Varsity Team Captain of Cross Country, 2011 to 2014
- Cum Laude Society of Holland Hall in 2014
- National Merit Scholar in 2014
- Scoutmaster's trophy from BSA Troop 26 in 2014

## SKILLS

**Programming:** Java, MATLAB, Python, Visual BASIC, SQL, PHP, JavaScript, C, C++, C#, Assembly, HTML5, CSS3, XAML, Bash, PowerShell, VHDL, FPGA.

**Concepts:** Object-Oriented & Script Programming, Circuit Design, Calculus, Differential Equations, Boolean Algebra, Computer Architecture, Signal Processing, Embedded System Design, Quantum Mechanics, UWP, Git/SVN, TCP/IP, UDP.

**Software:** Microsoft Office, Altera Quartus, Blender, NI Software, SimuLink.