Landon Newberry

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EDUCATION

- **The University of Alabama** — Tuscaloosa, AL
  Bachelors of Science in Computer Science; Minor in Mathematics; GPA: 3.76/4.00 — *Expected December 2018*

EXPERIENCE

- **84.51°** — Chicago, IL
  Data Analyst (Process Automation) Intern — *May 2018 - Aug 2018*

- **AT&T** — Atlanta, GA
  Engineering & Operations Intern — *May 2017 - Aug 2017*
  - **Data Analysis**: Analyzed data to detect inefficiency in AT&T technician work assignments. Collaborated with Southeast Labor Union to develop a strategy to relocate affected AT&T/DirecTV technicians. Implemented this plan and delivered 93% optimal technician mapping versus the previous strategy which yielded 82% optimal mapping.
  - **Process Automation**: Developed software to automate the process of ordering specific pieces of equipment for AT&T Wire Technicians. Formerly this process was manually completed by all regional Area Managers.

- **Gyrasoft LLC.** — Perry, GA
  Junior Web Developer — *May 2016 - Aug 2016*
  - **Company Project**: Full-stack development for an in-house ASP.NET MVC time management/client billing application.
  - **Medical Training**: Sole developer for client project: a PHP application that provided HIPAA compliance training modules and certifications for healthcare professionals.

- **The University of Alabama** — Tuscaloosa, AL
  Undergraduate Research Assistant — *Oct 2015 - April 2016*
  - **Shell Scripting**: Used shell scripting and C++ to automate large tasks including trajectory generation, minimization, manipulation, and plotting with Gnuplot.

ORGANIZATIONS

- **The University of Alabama EcoCAR** — Tuscaloosa, AL
  ADAS Sub-Team — *August 2017 - Present*
  - **S32V234**: Received training on S32V234 Vision Processor for vehicle detection and lane recognition at NXP Semiconductors in Austin, TX.
  - **Tensorflow**: Experimentation with Google Tensorflow Object Detection API to detect vehicles in close to real-time.

RELEVANT COURSES

- **Data Structures & Algorithms**: Space and time complexity of algorithms. Study and implementation of hash tables, graphs, disjoint sets, balanced search-trees, heaps. Techniques including linear sorting and dynamic programming.
- **Social Media Data Analytics**: A study of data mining using APIs from popular social media sites. Using machine learning algorithms to extract meaning. (e.g. detecting natural disasters by using Twitter live-stream data to train anomaly detection models)
- **Microcontrollers**: I/O with interrupts, assembly language programming, and peripheral interface design.
- **Software Design and Engineering**: Program life cycle, software systems analysis techniques, theory and practice of design, program testing methodology, etc.

HONORS, AWARDS

- **U. of Alabama Presidential Scholar**: Awarded full-tuition scholarship for outstanding academic performance.
- **U. of Alabama Emerging Scholars Program**: Selected to participate in undergraduate research during Freshmen year.

PROGRAMMING SKILLS

- **Languages**: Python, C, Javascript, SQL, Java   **Technologies**: MongoDB, Angular.js, Node.js, .NET MVC