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° (Kroger)** — Chicago, IL
  Data Analyst (Process Automation) Intern — *May 2018 - Aug 2018*
  - **Chatbot**: Created a chatbot for Kroger Little Clinic that schedules appointments, retrieves wait times, and parses text using NER to create illness reports. Scraped training data from medical forums with **Python**.
  - **Share-of-Wallet**: Used rest-of-market National Consumer Panel data to overhaul the existing share-of-wallet feature and predict rest-of-market spend for 44 million Kroger households. Improved accuracy significantly.
- **AT&T** — Atlanta, GA
  Engineering & Operations Intern — *May 2017 - Aug 2017*
  - **Process Automation**: Developed software to automate the ordering of equipment for AT&T Wire Technicians.
  - **Data Analysis**: Detected inefficiency in AT&T technician work assignments and developed a solution to relocate affected AT&T/DirecTV technicians. Implemented this plan and delivered **93%** optimal technician relocation versus the previous strategy which yielded **82%** optimal relocation.
- **Gyrasoft LLC.** — Perry, GA
  Web Developer Intern — *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*
  - **Automation**: 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. Implementation in **C** of hash tables, graphs, disjoint sets, balanced search-trees, etc. Dynamic programming.
- **Social Media Data Analytics**: Data mining using APIs from 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)
- **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 **Technologies**: AWS, MongoDB, Flask, React/Redux