Ian Glen Neal

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Education

University of Texas at Austin **May 2017 (Expected)**

- B.S. in **Computer Science**, in the **Turing Scholars Honors Program**
- B.S. in **Electrical Engineering**
- **GPA: 3.805**

Technical Skills

- Proficient in Java, Python, C++, C
- Exposure to Puppet, ARM assembly (Thumb-2), Ruby, Processing, JavaScript, SQL

Experience

Tableau Software [Software Engineering Intern] **Summer 2015**

- Implemented a template processing engine using FreeMarker that processed templates for machine and environment configurations and provided validation for configuration settings and machine wellness
- Wrote Puppet manifests to deploy product code and support software

Amherst Holdings LLC [Software Engineering Contractor] **Winter 2014**

- Designed and implemented a scalable web scraping system in Selenium for data collection across multiple and diverse internet data sources

Tableau Software [Software Engineering Intern] **Summer 2014**

- Created ETL scripts to recover and transform product usage data for internal analysis

Projects

Pacman AI [Python]

- Implemented several autonomous agents utilizing various types of search, inference, learning, and classification techniques

GheithOS [C++]

- Built a simple operating system and shell by implementing common kernel abstractions (including building a memory management system, processes, concurrency and context switching)

Web Crawler [Java]

- Designed a webpage parser that would crawl and index webpages, and a simple search engine to process complex queries

R4diant [Java]

- Created a prototype of a Minecraft-like open world single player game with an additional fourth spacial dimension for a unique navigation experience, and worked heavily on optimizing world loading to compensate for exponentially larger world sizes due to the additional dimension

Coursework

- Artificial Intelligence: Honors — Spring 2015
- Algorithms and Complexity: Honors — Spring 2015
- Linear Systems and Signals — Spring 2015
- Operating Systems: Honors — Fall 2014
- Introduction to Embedded Systems — Fall 2014
- Circuit Theory — Spring 2014
- Computer Architecture: Honors — Spring 2014