ajgreenwell.com
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Andy Greenwell

EDUCATION

Boston College | Carroll School of Management *May 2020*
Bachelor of Science in Management, Concentrations in Computer Science & Information Systems *Chestnut Hill, MA*
- 4.00 Major GPA, 3.86 Cumulative GPA, Ranked Top 6% of Class
- Relevant Coursework: Data Structures and Algorithms (Java), Database Systems and Applications (SQL), Computer Systems (C), Algorithms (based on *Introduction to Algorithms* by CLRS), Systems Analysis & Design

EXPERIENCE

Software Engineering Intern | Full Stack Developer (React.js, PHP, SQL) *Summer 2019*
Wayfair Inc., Storefront Engineering, Customer Landing Experience *Boston, MA*
- Enabled new UI layouts to be integrated 3 times faster by architecting a layout picker for email capture pages
- Helped my team acquire over 2,400 emails / day by implementing an email capture page for in-store customers
- Quantified the benefits of using different UI layouts by integrating an A/B testing mechanism into email capture pages
- Rated as the highest performing engineering intern with perfect scores across all four categories (Team Building & Culture, Innovation & Results, Critical Thinking, Communication)

Software & Curriculum Developer | Intro to Programming for Management (Python) *Summer – Fall 2018, Fall 2019*
Boston College Carroll School of Management, Information Systems Department *Chestnut Hill, MA*
- Co-created an introductory Python course for BC students; instructed 80+ students as the lead TA
- Authored 10 reading assignments, designed 2 coding projects, crafted 8 exercises, and devised the curriculum structure
- Decreased grading times by 80% by implementing an automatic grading system to evaluate and publish scores / feedback

Software Developer | Voice Activated Technology Research Associate (Node.js, DynamoDB) *Mar. – Dec. 2018*
Boston College Carroll School of Management, Academic Technology Innovation Grant *Chestnut Hill, MA*
- Designed, programmed, tested, and deployed 5 Alexa skills while operating in an Agile framework
- Increased student engagement and assisted professors by automating administrative tasks and persisting classroom data
- Authored user documentation and consulted with client professors to ensure smooth adoption of the software

SOFTWARE PROJECTS (see github.com/ajgreenwell for code samples)

Heap Manager | Memory Allocator & Garbage Collector (C) *Fall 2019*
- Implemented a heap management SDK for explicitly allocating, freeing, and coalescing dynamic memory blocks
- Constructed a garbage collector using the Mark & Sweep algorithm to facilitate automatic memory management

Connect Four REST API | Online Multiplayer Game Server (Node.js, MongoDB) *Fall 2019*
- Implemented 4 API endpoints that enable clients to play Connect Four against each other using HTTP requests
- Integrated with MongoDB to provide persistence of game data

Java Class Generator | Automatic Code Generation Application (Python) *Jan. 2019*
- Designed and programmed a Java interface parser that generates compilable, type-correct Java class files
- Modularized and decoupled code to provide convenient extensibility and customization of the platform

Huffman Coding | Lossless Compression Algorithm (Java) *Fall 2018*
- Implemented the Huffman coding algorithm to compress standard files into zip files
- Architected 3 abstract data types to facilitate the compression: Huffman Trees, Symbol Tables, and Bit Patterns

ajgreenwell.com | Personal Website (HTML, CSS, Bootstrap) *Sep. 2018*
- Designed, constructed and deployed static web pages via GitHub; authored personal content

SKILLS & TECHNOLOGIES

Proficient: Python, JavaScript, React.js, Java, C, SQL, Git
Familiar: Node.js, Express.js, Flask, PHP, HTML, CSS, MongoDB, DynamoDB, Bash