

John M. Rundle

(573) 645-1263 | jrundle@nd.edu | <https://jackrundle.me>

EDUCATION

University of Notre Dame

Major: Computer Science

Relevant Coursework:

- (Current) Compilers & Language Design, Programming Paradigms, Theory of Computing
- (Completed) Data Structures, Discrete Math, Computer Architecture, Systems Programming

Notre Dame, IN

May 2022

GPA: 3.97 / 4.00

TECHNICAL SKILLS

Languages: C, C++, HTML/CSS, Java, Python, SQL

Other: Agile (Scrum), ASP.NET, AWS (EC2, S3), Bootstrap, Flask, Git, jQuery, SSRS, Unix, Vim, Visual Studio

EXPERIENCE

Fidelity Investments

Software Engineering Intern

Durham, NC

June 2020 – July 2020

- Developed enhancements to a C++/MFC based regression utility used to test Pension Plan calculation software
- Architected system in Python, C++, and MySQL to automate monthly QA regressions, saving hundreds of hours/year
- Prepared documentation and instructional videos on generics of source code, C++, MFC, and application structure
- Worked with team to adopt more modern Agile principles into existing Scrum model

Huber & Associates (IT Services)

Junior Application Developer

Jefferson City, MO

May 2019 – June 2020

- Coordinated with Accounting dept. to design SQL-based financial analyses in SSRS, reducing required labor by 75%
- Conceptualized and developed an intranet website to manage company event planning and signups
 - Leveraged .NET MVC 5 for backend, jQuery and Bootstrap for frontend, and a remote SQL DB for data storage
- Investigated potential applications of the IBM Watson API with custom Flask prototypes and Node.js endpoints
- Collaborated with a state government office to transfer website content from one CMS to another
- Imaged and shipped thousands of Lenovo servers to a nationwide client
 - Developed a variety of PHP and Bash scripts to automate server inventory and testing

PROJECTS

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Summer 2020

- Designed an AWS EC2 hosted website from scratch, using Flask + Nginx for backend and vanilla JS + CSS for front-end
- Integrated Spotify and GitHub API's to gather additional information, using AWS S3 to securely store OAuth tokens

HTTP Server

Spring 2019

- Utilized system calls in C to create a simple HTTP server, deployed to an AWS EC2 instance
- Leveraged a custom Python HTTP client and Bash script to test the latency and throughput of the server

Rubik's Cube Solver

Spring 2019

- Successfully developed a solution algorithm in MATLAB and set up an Arduino to actuate motors in a 3D printed frame
- Selected as one of the five featured projects among all freshmen engineers and invited to present to incoming class

Golf Handicap Manager

Summer 2018

- Designed and implemented a Python based golf handicap management system with a GUI and user login system
- Developed a Python script to asynchronously parse over 14,000 webpages of USGA course and tee data
- Utilized Google's Geocoding API in populating a local SQLite database with relevant information on USGA courses

ACTIVITIES

Notre Dame Club Golf Team (2x National Championship Participant), CS For Good, Intramural Sports