

Charlie Coleman

2912 36th St, Des Moines, IA 50310 — (515) 724-2838 — me@charlie-coleman.com

Education

Bachelor of Science in Computer Engineering, May 2019
Saint Louis University — Saint Louis, MO

- Departmental GPA: 3.96, Cumulative GPA: 3.58

Projects

Karnaugh Map Solver

- Written using Javascript, HTML, and CSS
- Uses the Quine-McCluskey Algorithm in combination with Petrick's method to perform boolean simplification
- Allows the user to enter the truth table through multiple methods

Schedule Maker

- Written using JavaScript, HTML, and CSS
- Allows users to plan and create a class schedule
- Converts the class data to a base 64 encoded JSON string
 - This allows the current schedule to be bookmarked/saved
- Allows the user to export the schedule as a calendar file
 - Compatible with Google Calendar and Outlook

Fractal Generator

- Written using JavaScript, HTML, and CSS
- Generates fractal images using Lindenmayer systems
- Can generate very complex fractals using recursive methods
- Allows the user to export the final fractal as a PNG file

Technical Skills

Operating Systems	Windows 7/8/10, Linux Mint, Ubuntu, MacOS
Languages	C++, C, Java, Python, VBA, JavaScript, HTML, CSS, Assembly, VHDL
Miscellaneous	Microsoft Office, Autodesk Inventor, Git/Github, Agile (scrum) Development

Work History

Software Engineering Intern *Cerner — Kansas City, MO (2018)*

- Re-implemented an existing piece of software in Node.js and ReactJS
- Used Scrum development practices to communicate progress with my manager and team and get feedback
- Used Git/Jenkins/Crucible to test & review code

Tech Repair Technician *Office Depot — Des Moines, IA (2017)*

- Ran diagnostics and repaired customers' computers
- Communicated with team members on what needed to be done
- Worked with customers to diagnose and solve problems

IT Intern *PurFoods LLC — Ankeny, IA (2016)*

- Gathered information on the company's computer system
- Documented computer inventory of the company
- Created tools to facilitate easier access to the data for editing/viewing
- Took a project description and decided the best path forward
- Worked mostly independently while giving updates to superiors

Volunteer History	Camp Counselor	<i>Catholic Youth Camp — Panora, IA (2014-2018)</i>
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