

Permanent:

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# Dan Burger

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Campus:

314 Sylvia St  
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## Education

**Purdue University**, West Lafayette, IN  
Bachelor of Science in Computer Engineering

GPA: 3.5 / 4.0  
May 2021

## Work Experience

**Buildout, Inc.** - Chicago, IL - *Software Engineering Intern* May 2020 – Aug 2020

- Developed a Ruby on Rails RESTful API Web service to interact with social media APIs
- Implemented social media integration into Buildout by calling the Web service to connect and post to Facebook, LinkedIn, and Twitter
- Designed the UX for customers to interact with the Web service using Bootstrap, Rails & React

**Northrop Grumman** - Melbourne, FL - *Electronics & Payload Intern* May 2019 – Aug 2019

- Active DoD Secret Security Clearance
- Researched Docker and containerization for use in running tests in parallel to cut down on total test execution time and increase efficiency of resources
- Integrated Docker into the existing subsystem testing architecture to isolate subsystem tests

## Project Experience

**The Crazy Monkeys Improv Official Website**, [www.crazymonkeyscomedy.com](http://www.crazymonkeyscomedy.com) Summer 2020

- Developed a website to advertise events and automate audition registration using Ruby on Rails
- Enabled 60 users to register an account and upload media using AWS S3 buckets

**Microcontroller Serial Terminal Game**, Purdue University, *ECE 362* Spring 2020

- Programmed an arcade game playable with a computer terminal on an STM32 microcontroller in C
- Processed MIDI files to play theme music using timers and frequency generation

**DLXOS Operating System Project**, Purdue University, *ECE 469* Spring 2020

- Implemented traps, system calls, synchronization primitives, mailbox API, one-level paging, and malloc/free methods with heap management in the DLXOS operating system in C

**Online Classroom Data Analysis**, Purdue University, *ECE 20875* Fall 2019

- Analyzed & clustered data from 1,535 students' video watching behavior on 93 online lectures
- Estimated students' post lecture quiz scores based on 9 playback metrics using regression in Python

## Leadership and Involvement

**The Crazy Monkeys Improv Group**, Purdue University, *President* Sept 2017 – Present

- Strategized the planning and execution of 10+ safe campus events under restrictions due to COVID-19
- Perform free comedy shows for thousands of students throughout the school year

## Achievements

Dean's List & Semester Honors May 2020

Nominated for and attended EMV Sophomore Leadership Retreat Sep 2018

## Skills

**Soft skills:** Public speaking, leadership, goal-oriented

**Programming:** C/C++, Java, MATLAB, Python, Ruby, HTML, CSS, Javascript

**Software, Systems & Frameworks:** Linux, git, Docker, Ruby on Rails, React, Bootstrap, Agile Development