

Tucker Bell

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EDUCATION

UNIVERSITY OF WISCONSIN-MADISON

BS IN COMPUTER SCIENCE

May 2021 (expected) | Madison, WI
Cum. GPA: 3.30 / 4.0
Honors: Dean's List, Spring 2017-18

PRINCETON HIGH SCHOOL

Grad. June 2016 | Princeton, MN

LINKS

Github:// [tbell5](#)
Website:// [pages.cs.wisc.edu](#)
LinkedIn:// [Tucker Bell](#)

COURSEWORK

UNDERGRADUATE

Completed

Networks

Operating Systems

Machine Organization & Programming

Database Management Systems

Compilers & Programming Languages

Object-Oriented Programming

Data Structures

Elementary Matrix & Linear Algebra

In Progress

Algorithms

Artificial Intelligence

SKILLS

PROGRAMMING

Highly Experienced

(many projects/classes):

Java • Python • C

Somewhat Experienced

(1-3 projects):

C++ • SQL (SQLite) • CSS • HTTP

Shell (Bash) • Assembly • Latex

Lisp (Scheme)

TOOLS

Git • Vim • Bash • Linux • Make
Scrapy (web crawler) • Matplotlib
(graphing library) • POSIX API
Eclipse IDE • JSON/CSV

SOFT SKILLS

- Excellent writing and communication skills.
- Strong collaborator and team member.
- Capable and experienced leader.

RESEARCH

WISCONSIN ADVANCED INTERNET LABORATORY

UNDERGRADUATE RESEARCH ASSISTANT

Mar 2020 – Jan 2021 | Madison, WI

- Worked under **Scott Anderson** and **Prof. Paul Barford** as the main developer of PowerPing, a tool to assess the effects of power outages on network responsiveness.
- Developed a python program to periodically scrape live power outage data, identify counties with power outage events, and send system-wide ping sweeps to networks in identified counties, using the MaxMind GeoIP Database and ZMap network assessment tool.
- Developed data models and data processing programs to generate data and graphs for publication.

PROJECT SELECTIONS

C CHESS Spring 2020 | languages: C

- **Description:** a fully functional chess game implemented in terminal via ASCII characters. Features algorithms for determining checkmate, stalemate, and illegal moves.
- **Topics:** procedural programming, pointers, idiomatic C style, C standard library, user input handling.
- **Links:**

Github:// [Command Line Chess Repository](#)

DRINK RECIPE DATABASE Summer 2019 | languages: C++

- **Description:** a sophisticated command line application used to provide a list of cocktail recipes based on a user-generated list of ingredients.
- **Topics:** C++ libraries, C++ collections, C++ streams, object oriented programming, pointers, header files, data querying algorithms, command line interfaces, recursive functions.
- **Links:**

Github:// [Drink Menu Repository](#)

PORTFOLIO WEBSITE Fall 2019 | languages: HTML, CSS

- **Description:** a website I built from scratch to showcase my computer science experience, interests, and learnings.
- **Topics:** web design, developer tools, markup languages, style sheet languages, integrating JavaScript programs.
- **Links:**

Github:// [Portfolio Website Repository](#)

Website:// [pages.cs.wisc.edu](#)

MISCELLANEOUS

EAGLE SCOUT | Winter 2016

- **Service Project:** funded and organized the construction of loon nesting platforms for the Minnesota Department of Natural Resources.