

# David Purdum

purdum41@gmail.com  
(317) 760-9416  
github.com/rutrum  
linkedin.com/davidpurdum

## Education

**Butler University**  
*May 2020 Expected*

Mathematics Major · Computer Science Major · Statistics Major  
3.9 GPA

*Parallel Algorithms · Numerical Analysis · Nonparametric Methods · Linear Algebra · Object-Oriented Design · Abstract Algebra · Computer Networks*

## Skills

C++ · Python · Java  
Shell · Git · JavaScript  
C# · HTML · CSS  
Node.js · SQL · LaTeX

Linux · MPI · Visual Studio  
Virtualbox · Wireshark · Azure  
Github

## Relevant Experience

**AI Chatbot Developer**  
Eli Lilly

*May 2019 – August 2019*  
Develop a chatbot for internal use on a web portal.

**Software Engineer**  
Ontario Systems

*May 2018 – August 2018*  
Wrote tests and fixed bugs on accounts receivable software. Worked with legacy code and practiced Kanban. Implemented virtual machines for testing environments.

**Research**  
Butler University

*February 2018 – Present*  
Implemented and analyzed algorithms for computing the number of distinct integers in the  $n$  by  $n$  multiplication table. Presented poster at the Algorithmic Number Theory Symposium (ANTS XIII) in July 2018 with Dr. Jonathan Webster.

**XTern Bootcamp**  
Techpoint

*June 2017*  
Learned front end web development using React in a three week camp.

## Projects

**Healthy Horizons**

Developing full-stack Node.js site for Butler University's Healthy Horizons program. Allows users to submit weekly wellness habits and administrators to monitor those submissions.

**GuideDawg**

Designing an API to communicate between Azure database and Xamarin mobile application. GuideDawg allows those with visual impairments to navigate Butler's campus.

**Curly**

Implementing a markup language with translator from simplified JSON-like syntax into HTML.

## Other Experience

**Security Guard**  
Klipsch Music Center

*May 2017 – September 2017*  
Checked in visitors by searching concert attendees and maintained behavior during performance to ensure the safety of guests.

**Martial Arts Instructor**  
Level 10 Martial Arts  
College

*January 2014 – September 2016*  
Trained students from beginner to black belt in the arts of Tae Kwon Do and Kung Fu. Directed martial arts events including seminars, graduations, and tournaments.