

# David Purdum

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## Education

**Butler University**  
*May 2020 Expected*

Mathematics Major · Computer Science Major · Statistics Major  
3.9 GPA

*Parallel Algorithms · Numerical Analysis · Design of Experiments · Linear Algebra · Object-Oriented Design · Abstract Algebra · Computer Networks*

## Skills

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

Linux · Open MPI · Virtualbox  
Wireshark · Azure · Github  
Tensorflow

## Relevant Experience

**Developer**  
Eli Lilly and Company

*May 2019 – August 2019*

Wrote image processing scripts in python for optical character recognition. Trained machine learning models for image classification. Metadata extracted from images are indexed in an internal search engine.

**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.

## 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.