

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.

Curly

Implementing a markup language with translator from 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.