David Purdum

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Education

Butler University
May 2020 Graduation

Mathematics Major · Statistics Major · Computer Science Major
3.966 GPA

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

Skills

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

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

Relevant Experience

IT Specialist
Eli Lilly

May 2019 – August 2019
Starting internship in Summer 2019.

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 unique integers in the $n \times n$ multiplication table. Presented poster at 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 the Tae Kwon Do and Kung Fu. Directed martial arts events including seminars, graduations, and tournaments.