

Nathaniel Light

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Education

Bowling Green State University

M.S. Computer Science

Bowling Green, OH

Graduated May 2019

- **Master's Project:** Optimized the algorithms used in matching kidney-donors with recipients. These algorithms are part of a new process based on immunogenicity instead of HLA mismatching. The total runtime was reduced from 43 hours and 14 minutes to 13 hours and 20 minutes.

B.S. Computer Science, Spec. in Software Engineering

Graduated December 2017

Technical Skills/Certifications

- C#, C++, Linq, Java, SQL Server, MySQL, HTML, CSS, javascript, jQuery, XAML, LaTeX, Python, .NET, .Net core, Angular 2+, Git, Agile, Bootstrap, Parallel Computing, pThreads, OpenMP, MPI
- Microsoft Certified: Azure Fundamentals - Issued February 2024
- Scrum.org - Professional Scrum Master I (PMS I) - Issued May 2020

Professional Experience

MassMutual Ascend

Senior Software Engineer

Software Engineer

Associate Software Engineer

Cincinnati, OH

March 2024 - Present

August 2021 - March 2024

September 2019 - August 2021

- Contributes to the team that maintains and enhances massmutualascend.com and mybusiness.massmutualascend.com (the site used by the agents that sell the company's annuities) as a full-stack developer. Participates in an on-call rotation where he addresses various types of production defects. Participates in/Orchestrates production deploys. The team operates in Scrum-agile environment. Developed a process to automate the updating of rates on rate sheets and client rate fliers - a process that previously required multiple people to manually update these documents, sometimes on a weekly basis. Rewrote the new business kit process - improved overall performance through creative use of caching, restyled the UI, and allowed the company to deprecate an application that was no longer needed by external vendors. Serves as the subject matter expert (SME) on these processes.
- Technologies used:
 - C#, ASP.NET MVC, Sitefinity CMS, HTML, CSS, Razor, Javascript, Alpine.js, jQuery, Ajax, .NET framework, .NET Core, Entity Framework, WCF, SOAP and REST Services/APIs, Swagger, SQL, Microsoft SQL Server, Twilio, Okta, Git, TFS, Jenkins, Octopus, ServiceNow

QuinLogic LLC

Software Engineer

Cincinnati, OH

June 2019 - September 2019

- Customized QuinLogic's Quality Management Software to fit client needs. Held training sessions on how to use various pieces of QuinLogic Software (Quality Monitor, LogicDesigner, Data Integration Studio). Work with C#, XAML, SQL Server, Git, etc. on a daily basis.

Progressive Insurance

Application Development Intern

Mayfield Heights, OH

May 2018 - Aug. 2018

- Implemented enhancements to the Prove application(written in C# and uses the .NET MVC 5 framework). Wrote Specflow tests and refactored current environments to increase code reusability and make it easier for future developers to understand.

- Used Spring Tool Suite (STS) to generate reports revealing discrepancies in tables shared between multiple departments. Collaborated with another intern to develop a web browser POC that integrated with existing POS systems.

Teaching Experience

Baldwin Wallace University
Lecturer II

Baldwin Wallace University, OH
August 2024 - Present

- Courses Taught: CSC 310 - Introduction to Software Engineering (Fall 2024, Fall 2025). Taught remote synchronously on Mondays and Wednesdays from 4:35pm - 5:50pm. This is currently the only course available for remote learning within Baldwin Wallace's CS/SE department.

Mission Guatemala Medical Records Software
Volunteer: External Industry Consultant/Solution Architect

Baldwin Wallace University, OH
August 2023 - Present

- Reviews student code changes. Mentors students and provides input/feedback on proposed solutions. Creates/facilitates "Tech Talks" and class activities to bring students in CSC-311/480/481 up to speed on technology used within the project. Answers students' questions/orchestrates calls to work through roadblocks. Ensures consistent and efficient implementation of code. Attends daily standups, pre-code implementation, testing, and retrospectives to ensure students progress from individual coders to software engineers contributing to one team goal.

Bowling Green State University
Graduate Teaching Assistant - Object Oriented Programming and Computer Architecture

Bowling Green, OH
Jan. 2018 - May 2019

- Served as a TA under four different professors over three semesters. TA'd for object oriented programming (CS 2010-Introduction to Programming, CS 2020-Intermediate Programming), computer architecture (CS 2170), and windows application development (CS 3160) courses. Held office hours, graded assignments, lectured when asked to.

Projects

Easy Workout Journal App - *React Native, Azure Functions*

- A mobile app, available on the Apple app store under "Easy Workout Journal". A workout journal app, focused on keeping things easy. I designed a new quick method for inputting workouts - Instead of typing in the full workout name a user can create a workout with only 4 button clicks. More info available at easyworkoutjournal.com

Student Loan Forecaster API - *C#, .Net 6, Hosted On Azure*

- An API to determine how long it'll take to pay off your student loans for a given payment frequency, additional amount paid, and payoff priority (for multiple loans).

Budget Forecaster API - *C#, .Net 6, Hosted On Azure*

- An API to forecast how your budget will look over a given period of time.

Paperskies - *C#, Unity*

- Mobile game, previously available on the Google play store under "Paperskies". Made with a collaboration of Digital Arts (ARTC 4420) and Computer Science (CS 4540) students at BGSU.