

Chase Austin

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Objective

Seeking a Full Time Opportunity as a Software Developer

Education

University of Michigan

September 2015 – December 2019

B.S Computer Science; Minor Entrepreneurship

Related Courses

Elementary Programming Concepts, Programming and Introductory Data Structures, Discrete Math, Data Structures and Algorithms, Introduction to Computer Organization, Foundations of Computer Science, Introduction to Computer Security, Web Systems and Databases, Database Management Systems, Introduction to Algorithms, Software Development for Accessibility, Calculus I, Calculus II, Entrepreneurial Business Basics, Entrepreneur Creativity, Entrepreneurship E-Commerce

Skills

Languages / Platforms: C, C++, C#, Python, HTML, CSS, Java, JavaScript, Flask, Django, React, Node.js, PHP, ASP.NET, Shell Scripting, SQL, Amazon Web Services, Elasticsearch

Experience

University of Michigan Ross School of Business

Software Developer

Map Optimizer

July 2019 – March 2020

- Created linear programming project that sorts Ross Business School students into capstone business projects based on their individual project ranks and skills
- Configured project specifications to work with all nine Ross degree program. Added individual specifications for each degree program based on their administrators' requests. Added multiple optimization parameters
- Converted program from C++ to C# ASP.NET web page; integrated project with school's Oracle database
- Used IBM CPLEX Optimization studio

Assurance of Learning Dashboard

- Created webpage to display course learning outcomes in a dashboard; used by program administrators
- Created an additional webpage to display individual student learning scores; used by students and academic advisors
- Created using C# ASP.NET

University of Michigan School of Engineering: Apollo Lens

Student Researcher

September 2018 – May 2019

- Worked with Surgeons at University of Michigan CS Mott Children's Hospital to design a Microsoft HoloLens app for displaying patient information during surgery
- Application features included the following: a DICOM medical scan gallery, a medical device video viewer tool, a file uploading tool, and a 3d imaging tool.
- Created using C#, XAML, Unity, and various open source libraries
- Application was used during a live Laparoscopic Surgery at CS Mott Children's Hospital
- <http://eecs.umich.edu/eecs/about/articles/2019/telesurgery.html>

University of Michigan School of Information: Social Media Archive

Student Researcher

Summer 2018 – May 2019

- Developed a user-friendly archive of social media datasets for use by social science researchers on AWS infrastructure
- Utilized AWS Elasticsearch Clusters, AWS Firehose, AWS S3, AWS EC2 Instances, AWS Lambda, and AWS Elastic Beanstalk
- Created tools and documentation aimed at non-technical users who wish to collect and analyze social media data
- Designed project scope; worked with other engineers in order to create implementation
- Viewable at <https://somar-site.com>

Personal Projects

NBA Machine Learning

Fall 2019 - Present

- Used Python sklearn library to create a Linear Regression model that predicts NBA player stats and game outcomes
- Model uses player and team statistics from basketball-reference.com; in total there are 102 features the model utilizes

NBA Twitter Bot

Fall 2019

- Built a twitter bot using Python tweepy library that tweets daily NBA point, three point, assist, rebound, steal, and block leaders.
- Created python scripts that import daily stats into a mongo database. Hosted on an AWS EC2 instance.
- Twitter account is @DataDunk

Activities

University of Michigan Special Youth Outreach

Fall 2015 – Spring 2019

- Helped organize meetings and events with members
- Held practices for multiple sports including football, basketball, and soccer for people disabilities such as autism, down syndrome, etc.

Alma High School FIRST Robotics Mentor / Volunteer

Summer 2017 - Present

- Mentored students and assisted in training programs to help students learn and improve skill sets.
- Supervised field construction and deconstruction after matches in collaboration with the FIRST Technical Advisor.

Mijem Campus Director

Winter 2018 – Present

- Recruited and directed team members to accomplish marketing initiatives.
- Managed budget of \$20,000.