

# Mitchell Augustin

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## Career Status

I am a sophomore in Computer Science Honors at Purdue University and an independent software developer with 9 years of experience in object-oriented programming & 11 years of experience in web design. I am proficient in Java, C, C++, and Python.

## Career Goal

I intend to either work as a backend or frontend software engineer or a computer science researcher and focus on expanding the horizons of machine learning and natural language processing technology.

## Software Development Experience

All of my projects can be found at <https://mitchellaugustin.com/projects.html>

- Aurora, a linguistic analyzer I created as a voice assistant for Android before the Google Assistant was available to the public. Aurora also exists in several other forms, including but not limited to:
  - An extensible REST API (Java, JavaScript, SQL)
  - An Android app (Java, SQL)
  - A home automation unit (Java)
  - An AI Chatbot (Java, SQL)
  - A desktop application (Java)
- LandmARK, an augmented reality project for smartphones that allows you to view and place virtual artwork in different locations around the world. (Java, SQL, custom-built REST API)
- Spiral, a virtual free-form notebook app that lets users take notes without being restricted to a linear format like traditional word processors (C++, C, QT Platform)
- Lockdown Manager, a school safety app designed to improve communication among students and faculty members in the event of a hostile intruder by giving each student and teacher an alarm that they can use to alert their peers of an emergency. (Java, SQL, custom-built REST API)
- Sonar, an audio-based social network that allowed users to communicate with others through recorded audio or live calls about specific topics with random users. (Java, JavaScript, HTML, CSS, SQL, custom-built REST API, Android SDK)
- Spotify Playlist Analyzer, a program that uses the Spotify API to display graphical data about the user's musical preferences (JavaScript, Node.JS)
- Scorebert, a Discord bot that allows users to award each other points on a virtual scoreboard (Java, SQL)
- Water You Using, a water usage analysis platform that uses a network of custom sensors to analyze users' water usage over time. (I developed the server backend for this project.) (Python, JavaScript, HTML, CSS)
- My final project for CS 240 at Purdue, a MIDI augmentation program and library that allows users to modify their music in interesting ways, such as with pitch shifting, instrument remapping, and time dilation (C, GTK)

## University Achievements

- Winner of BoilerMake VII's "Best Water Conservation Hack" award – Spring 2020
- Accepted offer to join Computer Science Honors major – Spring 2020
- Dean's List & Semester Honors - Fall 2019 & Spring 2020
- Computer Science Learning Community
  - Organized the official Discord server for members of the learning community to help coordinate events

## Notable High School Achievements

- Valedictorian - 4.240 GPA
- Eagle Scout