

Joseph Penton

Gardendale, AL 35071
(205) 514-7284 jpenton2001@outlook.com



Education

University of Alabama at Birmingham
Bachelors in Computer Science, Minor in Psychology

Expected Graduation: May 2024
Academic Merit Scholarship, Band Scholarship

Relevant coursework: Data structures & algorithms, OOP, Web development, Software Engineering, Database Development, Computer Organization/Lang

Technical Skills

Languages: Python, Java, C, Assembly, HTML, CSS, Javascript
Frameworks: JavaSwing, JavaFX, OpenCV, NumPy
Other: Git, Postgres, Autodesk (AutoCad, Inventor, Revitt)

Projects

Hear How You Feel | Python, OpenCV, Threading, DeepFace, PlaySound - Fall 2023

- Developed a program leveraging OpenCV and DeepFace to preform real-time facial expression recognition using the users web camera.
- Implemented multi-threading to ensure the camera did not freeze while playing the sound associated with the expression.

Majestic Pies | HTML, CSS, JavaScript - Current

- Currently developing a simple e-commerce website for a local, family owned pizza restaurant that would allow them to capitalize on online orders.
- Plans to implement real-time menu updates, secure payments, and account creation, resulting in increased customer retention and total sales.

Precision Farming Software | Java, JavaFX - Current

- Currently developing a JavaFX-based precision farming software that employs drones to automate various farm task.
- Enabled controllable pathing to give farmer full control of task assigned to drone, as well as location it preforms it in.

Coffee Order Interface | Java, JavaSwing - Spring 2023

- Developed a friendly GUI that allows a barista to customize coffee orders given specifications from a customer.
- Added ability to quickly recall previous store transactions based on users account, resulting in a decreased order time.

Professional Experience

Teachers Assistant | Spring 2024

- Assisted teaching advanced object-oriented principles to over 200 students, both in lab and also individually during office hours.