Alyssa Davidson

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EDUCATION

Auburn University Auburn, AL
Bachelor of Science in Computer Science
Cumulative GPA: 3.5 / 4.00

SKILLS

- **Programming Languages**: Python, Java, C++, Ruby, SQL, JavaScript, CSS, HTML
- **Web and Backend Frameworks**: FastAPI, Bootstrap
- **AI and Data Tools**: PyTorch, Hugging Face Transformers, MiDaS
- **Systems and Development Tools**: Linux, Git, Bash, Assembly, CLI
- **Software Design & Concepts**: OOP, Data Structures & Algorithms, UML, Formal Languages, Secure Software Process
- **Networking & Security**: TCP/IP, NAT, Network Security Principles
- **Certifications**: SolidWorks Associate (CAD), TestOut PC Pro, C-Tech Copper/Fiber Cabling
- **Productivity & Documentation**: Microsoft Excel, PowerPoint, Word

WORK EXPERIENCE

Publix Market At The Shoppes At Cary Creek Auburn, AL
Customer Service Staff April 2020 – Present

- Diligently handle transactions including POS, credit, cash, checks, and money service transactions to ensure the accuracy of orders
- Assist with onboarding and train over a dozen associates in accordance with company procedures and standards
- Manage cashiers' drawers, cash operations working with at least $6,000 a day to identify and resolve cash discrepancies
- Coordinate as many as 25 associates during a shift to ensure the department is executing tasks with maximum efficiency

PROJECTS

SafeVision – Real-Time Depth and Object Detection System Auburn, AL
Personal Project (In Progress) May 2025 – Present

- Developing a real-time camera-based system to assist users with visual or spatial impairments
- Implemented object detection using Hugging Face's facebook/detr-resnet-50 and monocular depth estimation with MiDaS
- Integrated FastAPI backend to process image frames and return labeled objects with confidence scores and depth data
- Planned integration with a mobile-friendly web app to provide real-time navigation support through voice and visual feedback

Driver Safety System Auburn, AL
Team Member and Leader August 2022 – December 2022

- Led a team of 5 in the development of a Driver Safety System using Python, managing brainstorming sessions, task delegation, and project timelines
- Developed a system that automatically adjusted seat and steering wheel positions for optimal airbag deployment based on collected data
- Designed a user-friendly GUI for easy interaction and system monitoring
- Ensured project completion within deadlines, maintaining high standards of quality and functionality

O.G.R.E Robotics Team Opelika, AL
Programming Member and Marketing Team Captain August 2018 – May 2021

- Developed and implemented Java programs to support and enhance FRC competition requirements, ensuring high performance and reliability
- Updated and optimized previous years' code to align with evolving competition standards and new team goals
- Crafted clear, modular, and well-documented code to promote easy interpretation and future maintenance by team members
- Designed branded materials, including team buttons, shirts, and advertisements, to strengthen team identity and visibility