

Nicholas Clemmons

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Education

Bachelor of Science, Computer Science, December 2020

University of Central Oklahoma, Edmond, OK

- GPA: 3.84
- Magna Cum Laude

Relevant Courses

- Mobile Apps Programming
- Web Server Programming
- Introduction to Robotics
- AI Control of a Robot Arm
- 6 hours of Accounting
- Introduction to Forensic Science

Organizations and Extracurriculars

- Association of Computing Machinery [ACM].
- Founder of student Linux Club.
- Students for Sustainability [S4S].
- Student Academy of Forensic Science [SAFS].
- Broncho Robotics Club.

Experience

Course Team Projects - using Agile software development and the SCRUM framework

- Software Design and Development Capstone
 - Role: Product Owner
 - Developed a networked speech recognition protocol with proof of concept applications written in Java and JavaScript.
- Introduction to Robotics
 - Role: Scrum Master
 - Developed an autonomous motion tracking laser pointer turret using Lego Mindstorms EV3.
- AI Control of a Robot Arm independent study course
 - Role: Scrum Master
 - Developed an autonomous, object tracking robotic arm for wheelchair users.
- Mobile Apps Programming
 - Role: Developer

- o Developed an Android application for managing a collection of vintage video games.
- Web Server Programming
 - o Role: Developer
 - o Developed a JavaServer Faces (JSF) web application for managing a collection of record albums.

Research

- Assistive Technology Research with Dr. Fu at UCO and Dr. Wang at OUHSC.
- Multiple research projects involving Speech Recognition. Including a custom trained speech recognition model using Mozilla DeepSpeech and a speech enabled virtual keyboard written in Python.
- Wheelchair Mounted Robotic Arm.
- Accessible Mouse for quadriplegic wheelchair users.
- Abstract presentations at Oklahoma Research Day for Mobile Apps, Web Server Programming and AI Control of a Robot Arm.
- Abstract submission to the Create the Future Design Contest 2020 for the Accessible Mouse.

Skills

- Proficient in Java, C/C++ and Visual Basic.
- Experience with Python, node.js, Arduino and JSF.
- SQL
- Markup: LATEX, HTML, CSS and Markdown.
- Agile software development using the SCRUM framework
- Open Source Software Development
- Android App Development
- Git
- Speech Recognition
- Virtualization