

DANNY MOOLCHAND

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📺 in /moolchand-danny

EDUCATION

University of Florida

Gainesville, FL (August 2016 – August 2020)

- Bachelor of Science (BS): Computer Engineering
- Relevant Coursework: Data Structures and Algorithms, Introduction to Software Engineering, Information and Database Systems, Microprocessor Applications, Introduction to Computer Organization, Introduction to Software Testing, Introduction to Cryptology, Software Security (IP), Digital Design (IP)

TECHNICAL SKILLS

Programming C/C++, Java, ARM/AVR Assembly, Python, HTML, CSS, Javascript, VHDL, MySQL, MATLAB
Frameworks MongoDB, AngularJS, Express.js, Node.js, JUnit4
IDEs Eclipse, Visual Studio/Code, Atmel Studio
Technologies GitHub, Git, Altera Quartus, MATLAB, Altium, Google App Engine
Testing Jenkins, TravisCI, Cypress
Knowledge Object-oriented principles, Agile development, Test-Driven Development

PROJECTS

Online Banking System for CIS4930: Introduction to Software Testing

- *Python, PyTest, Cypress, Google App Engine, TravisCI, YAML*
- As a group, created a mock online banking system where users could create an account, deposit money, and buy different amounts of company stocks.
- Responsible for learning Google API/Services for mounting and deploying project through Google App Engine (GAP)
- Responsible for writing Cypress end-to-end tests to verify functional endpoints
- Responsible for setting up Travis Continuous Integration server to run all unit, integration, and end-to-end tests then deploy project on GAP on successful completion

Piano Synthesizer using Atmel XMEGA Microprocessor

- *C, Assembly*
- Created a piano synthesizer using the ATXMEGA128A1U microprocessor. Using keyboard keys as piano keys, the user is able to play the 6th octave C scale. This program utilized a sin-wave look-up table and ADC conversion to create necessary frequency through the speaker.

Study Spots Web Application for CEN3031: Introduction to Software Engineering

- *JavaScript, HTML, CSS, NodeJS, AngularJS, Express.js, MongoDB, Git, Github, Agile development*
- Contributed to the design and development of study room reservation system. Users view buildings on UF campus and can view, create, and reserve rooms for studying

INVOLVEMENT

UF Solar Gators

Member, Electrical Team - Embedded Telemetry

Gainesville, FL (August 2019 - Present)

- Utilized Altium to learn how to design a prototype of Solar Car's PCB power board.
- Currently writing driver code for a TFT display. Will be implemented into Solar Car on the dashboard for measurements like battery temperature, battery capacity, solar panel voltage, and vehicle acceleration.

Association for Computer Engineers (ACE)

Member

Gainesville, FL (August 2018 - Present)

- Collaborated and networked with interdisciplinary students to work on future projects
- Expanded membership of the club through recruitment

WORK EXPERIENCE

Dave Home Improvement Inc.

Laborer

Orlando, FL (Winter 2018)

- Assisted head carpenter in removing furniture and carpet from homes and installing new flooring
- Maintained and performed general maintenance on tools such as repairs, changing belts, etc

Apopka Marathon

Stock Clerk

Apopka, FL (Summer 2015)

- Imported inventory/created product deals in VeriFone Sapphire register database using proprietary software.
- Maintained and restocked low inventory on sales floor

AWARDS AND HONORS

Florida Bright Futures Scholarship

August 2016 - Present

Lake County Top Scholars Award

May 2016

Dean's List (Fall 2019)

December 2019