

Larry Joshua Crotts

336-813-8541 | joshuacrotts@yahoo.com
GitHub: <https://github.com/JoshuaCrotts> | Website: <https://joshuacrotts.us>

Education

University of North Carolina Greensboro, College of Arts and Sciences, Greensboro, NC *August 2018 - May 2020*
B.S. Computer Science (2021), M.S. Computer Science (2022), Minor in Mathematics *GPA: 4.0/4.0*

- Chancellor's List Fall 2018, Spring 2019
- Awarded Samanage Success and Mary. D Murray Scholarships for 2019-202 Academic Year, and Mary D. Murray Scholarship for 2018-2019 Academic Year (UNCG Computer Science Dept.)
- Coursework: Advanced Data Structures, Foundations of CS I/II, Computer Organization & Assembly, Elementary Data Structures & Algorithms, Concepts of Programming Languages, Theory of Computation, Software Engineering
- Accepted into Accelerated B.S. to M.S. Computer Science Program
- Accepted into Disciplinary Honors Computer Science Program

Forsyth Technical Community College, Winston-Salem, NC *August 2017 - July 2018*
Transfer Degree *GPA: 4.0/4.0*

- President's List Fall 2017, Spring/Summer 2018
- Coursework: Introduction to Computer Science (Python), Data Structures & Algorithms (C++)

Experience

University of North Carolina Greensboro, Greensboro, NC *August, 2019 - May 2020*
Computer Science Tutor

- Aided students in low to mid-level computer science courses with assignments.
- Serve as the TA for an Intro to Computer Science lab section, walking around to any student needing help. I also grade exams and lab programming assessments.

Research Assistantship - Software Developer *May 2019 - August 2019*

- Worked with Nancy Green (Ph. D) to rewrite an existing argument [scheme]-structured program into a software engineering ethic-focused diagramming software.
- Using JavaFX, we load in argument schemes and articles/cases/ethics using XML files, and allow the user to form premises, hypotheses, conclusions, counterarguments, etc.
- Tools utilized are [F]XML, JavaFX, NetBeans, Maven, etc. The user-interface was reconfigured and redesigned accounting for previous usability issues and bugs, including MacOS & Linux support, serialization/deserialization, etc.

Age-Wiser/TechStar Tutors, Winston-Salem, NC *March 2018 - October 2018*
Information Technology Tutor

- Traveled to various locations to meet with clients to address [their] computing problems, diagnose errors (hardware & software alike), or tutor them in an aforementioned topic.
- Improved company morale by acting in accordance to respectful and customary ordinances, thereby spreading positive feedback and increasing customer potential and quality.

Walkertown Family Pharmacy, Walkertown, NC *October 2016 - May 2018*
Computer Technician

- Created a Google Sheets and Google Apps Scripts (JS, SQL) medicine query application where customers input a specific drug, quantity, and our competitive prices compared to other pharmacies are displayed.
- Quickly and accurately typed addresses for delivery, constructed simplistic Google Forms and Sheets for invoice reports, formatted documents, and troubleshooted technology at the pharmacy such as scanners, computers, printers, etc.
- Technical diagnoses reduced downtime and boosted profitability margins.

Pharmacy Technician

- Assisted in counting pills for prescriptions ready to be filled. Restocked shelves, thereby decreasing clutter and improving productivity.
- Worked with several pharmacists and the owner to increase advertising potentials, as well as to advance effectual communication with pharmacy technicians and customers alike.
- Conducted inventory management encompassing floor stock (standard items for purchase) and cleaning the overstocked medications in the back to organize the pharmacy's inventory management software.
- Received the Pharmacy Technician License by the North Carolina Board of Pharmacy (NCBOP.org), authorizing the ability to handle medicine and prescriptions (inclusive of controlled substances).

Technical Strengths

Programming Languages:

- Proficient Experience: Java, C++, C, Python
- Additional Experience in: Assembly, C#, Swift, SQL, JavaScript, Google Apps Script, Prolog, XML

Tools: Visual Studio, Eclipse, NetBeans, IntelliJ, PyCharm, Vim, Microsoft office, Packet Tracer, Google Suite, XCode, LaTeX

OS: Windows, MacOS, Linux (Ubuntu, Mint, Elementary OS, ArcoLinux, PopOS)

Interests: High-Performance & Parallel Computing, Embedded Software Engineering, Microprocessor Design, Compiler Design, Quantum Computing, Artificial Intelligence, Advanced Algorithm Analysis & Design, Compression, Collision Detection