# Mitchell Bath

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## Education

**Master of Science in Computer Science**                                                                      2023
*University of North Carolina at Charlotte, 3.9 GPA Summa Cum Laude*
**Bachelor of Science in Computer Science with Minor in Mathematics**                  2021
*University of North Carolina at Charlotte, 4.0 GPA Summa Cum Laude*

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## Skills

- *Programming, Query, and Scripting Languages*: Python, Java, C++, C, C#, SQL, CQL, Lua, MongoDB, HTML, CSS, Ruby, RISC-V Assembly, JavaScript, and others
- *Frameworks and Libraries*: PyTorch, TensorFlow, scikit-learn, Keras, Flask, OpenCV, Node.js, Express.js, React.js, Socket.io, jQuery, Ruby on Rails, Swagger.io, Socket.io, JUnit, and others
- *Relevant Coursework*: Machine Learning, Computer Vision, Software System Design & Implementation, Data Structures & Algorithms, Database Systems, Applied Artificial Intelligence, Network App Development
- *Certifications*: Microsoft Excel, Word, Access | TestOut Network Pro

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## Project Experience

**Permanent Key Change Form Automation**
- Develop a flexible automated system for permanent key changes for UNC Charlotte's residence halls using Javascript in Google Apps Script

**Maxient Data Analytics and Management**
- Query a MySQL database of conduct cases and analyze, format, and organize data
- Guide coworkers through using Maxient and the departmental Maxient software workflow

**Programming Committee**
- Simplify the planning process by developing an automated system integrated with Google Calendar and Gmail using various programming languages including Python and Javascript

**Node.js Web Project**
- Develop a robust Node.js web app featuring user account registration, item trading, and offering trades
- Utilize MongoDB for efficient and secure data storage and querying for a robust user experience
- Generate detailed API documentation using Swagger for third party implementation

**Duty Shift Scheduling Python Automation**
- Create a Python script to solve scheduling problems for the department of Housing and Residence Life

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## Work Experience

**Residence Education Coordinator**
*University of North Carolina at Charlotte, Housing and Residence Life*
2022-Present
- Directly supervise, evaluate, and train up to 12 Resident Advisors and 4 Office Assistants
- Engineer digital solutions and software to streamline Resident Advisor shift scheduling, individual resident tracking, incident reporting, and procurement form management
- Train and teach coworkers and departmental partners to use software and automation techniques including Maxient and RMS Mercury database systems, Python and Javascript automations, and others
- Develop and implement a digital move-in organizational system utilized by 15 residence halls and Residence Life Leadership Team using Google Sheets formulas, Python, JavaScript, and other software tools

**Graduate Hall Advisor**
*University of North Carolina at Charlotte, Housing and Residence Life*                  July 2021-December 2021
- Supervise, evaluate, and train 11 Resident Advisors and 4 Office Assistants