JOHN SCHMIDT

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY Atlanta, GA

- Bachelor of Science in Computer Science - Second Year *Expected Graduation: May 2024*
- Specializing in Systems & Architecture and Information Internetworks, pursuing a certificate in Sustainable Business
- Relevant Classes: Data Structures & Algorithms, Computer Organization and Programming, Linear Algebra, Discrete Math for CS, Object-Oriented Programming, Systems and Networks, Multivariable Calculus
- Current cumulative GPA: 4.0

SKILLS

PROGRAMMING LANGUAGES: Proficient in Java, experienced with Python, Web Dev, C/C++

TECHNICAL SKILLS:

- Data Science, Analytics, and Visualization experience with Pandas, Dash, and Pytorch
- Comfortable with low-level computing concepts, from processor design to process scheduling and memory management
- Well-versed in version control for code using Git and Github
- Developed using the Unified Process and Agile Methodologies, including Agile Scrum
- Experienced with Object-Oriented Analysis, Design, and Programming for large and scalable applications

PROJECT EXPERIENCE

LIVING BUILDING - AIR QUALITY VERTICALLY INTEGRATED PROJECT Atlanta, GA

Sensor Calibration Subteam Lead *August 2021 – Present*

Project 1 (Fall 2021):

- Measured low-cost sensor data quality utilizing statistical analysis tools
- Developed a tool for automated compilation and analysis of air quality data to display on an interactive dashboard
  - Tools: Python, pandas, Plotly, Dash, Matlab

Project 2 (Spring 2022):

- Creating a statistical model to make higher quality predictions utilizing external variables like temp & humidity
- Assembling a mySQL database with sensor and weather data to enhance both current and future research
  - Tools: Python, mySQL, Docker, pytorch, fast.ai, numpy

COMPUTER SYSTEMS AND NETWORKS - *CS 2200* Atlanta, GA

Class Projects *Janurary 2022- Present*

Projects 1-2:

- Designed a processor from scratch using a circuit simulator, created a microcontroller for specified ISA, and wrote assembly utilizing the ISA to execute basic programs
- Added hardware, microcontroller, and assembly elements for proper handling of interrupts to the processor

OBJECTS AND DESIGN - *CS 2340* Atlanta, GA

Class Project: *Janurary 2021- May 2021*

- Worked as a team to collaborate and develop a larger-scale game application, meeting specified functionality and constraints
- Utilized SOLID and GRASP design principles to create the app according to Object-Oriented Design principles

SEEFOOD - WEB APP DEVELOPMENT Somers, WI

Programming Team Lead *August 2019 – May 2020*

- School-sponsored engineering design and development project, working with stakeholders to deliver a product
- Developed a web application to allow restaurants to display a centralized menu with allergen and dietary info
  - Tools: Python, Django, Bootstrap, CSS, Javascript

CAMPUS INVOLVEMENT & LEADERSHIP

STUDENT SUSTAINABILITY ADVISORY COUNCIL *August 2021 - Present*

Council Member: Serve as a liaison between students and campus administrators on sustainability issues and strategic planning

ASSOCIATION FOR SUSTAINABLE INVESTMENT *August 2021 - Present*

Member - Programming Committee: Plan and host events to engage the student body with sustainable investment topics

ELECTRIFY GT *August 2021 - Present*

Member & Principal Investigator: Research and create feasibility reports for campus leaders to advocate for electrification

TECH DINING *January 2022 - Present*

Sustainability Influencer: Plan and host events to promote sustainable dining, engage, and build trust with students