

# Swarna Jammalamadaka

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## EDUCATION

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**University of Illinois at Urbana-Champaign | Grainger College of Engineering** **August 2020-May 2024**  
**B.S. in Computer Engineering**

- *Relevant Coursework:* Calculus III, Linear Algebra, Discrete Math, Digital Systems Laboratory, Data Structures, Artificial Intelligence, Analog Signal Processing

## INTERNSHIP EXPERIENCE

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**Full-Stack Software Developer Intern, Uline** **May 2022-August 2022**

- Implemented data persistence feature to save region preferences, and resolved bugs to enhance applications as a full-stack engineer using Java and Angular on an Agile Scrum Team
- Updated API endpoints to handle multiple parameters as a part of a G2 Modernization project
- Utilized tools such as Swagger, Postman, and Jenkins to develop and deploy code on services and apps for the Logistics department

**QA Automation Engineer Intern, Encyclopedia Britannica** **May 2021-August 2021**

- Improved the efficiency of testing Britannica's School website by finishing automation test cases for all the main features of the site using Selenium in Python
- Adapted to a new role in order to quality assure a website going to production
- Demoed code to senior managers to showcase programming abilities

## PROJECTS

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### AI Robotics

- Used a modified A\* Search method to find the shortest path in the space using Python
- Created a shapeshifting alien path planning problem using a configuration space and 3D maze

### Healthcare Project

- Coded an interactive program using Java for users to track daily health goals including water intake, calories, and exercise
- Implemented functions allowing users to grow virtual flowers, and eventually full gardens, as daily healthcare goals were met to integrate an entertaining component

### Future Business Leaders of America

- Developed a mobile app using Java for students to play a quiz game about a topic
- Collaborated in back-end development by establishing functions testing the validity of answers selected by users to each timed question, and leadership feature

## ACTIVITIES

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### President, Girls Who Code, Ela Area Public Library

- Founded a branch of the Girls Who Code organization by reaching out to local libraries and constructing an engaging curriculum to teach Python and HTML
- Managed a program for girls in grades 6-12 for multiple years with meticulous planning

## SKILLS

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Java, Python, C programming, C++, System Verilog, Angular, Linux, JavaScript, HTML, CSS, Selenium, CAD