

William Buerk

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FIND ME ON:

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EDUCATION

University of Illinois at Urbana Champaign

B.S. Computer Science Candidate

August 2021 - May 2025 (expected)

- GPA: 3.95, Dean's List (All semesters)

EXPERIENCE

W. W. Grainger — Software Development Intern

June 2024 - August 2024

- Automated CI/CD pipelines for hundreds of developers with GitHub Actions, Docker, Kubernetes, Helm, and testing tools like WebDriverIO and Jest
- Reworked Grainger's internal developer portal with React while advocating for accessible design practices
- Diagnosed and resolved critical defects in the codebase

AmericanEagle.com — Front End Development Intern

May 2023 - August 2023

- Converted Figma designs into responsive, accessible websites using modern web development tech (SCSS, HTML5, ES6, and ReactJS)
- Developed interactive modules for live client websites using Hubspot/HubL templating language
- Designed and implemented websites to query and display API data

Optum United Healthcare — Technology Development Intern

June 2022 - August 2022

- Implemented data collection tools into hospital software, analyzed results and ideated design changes that would eliminate inefficiencies in user workflow and provide smart UI/UX
- Created real time, interactive data visualizations to give engineers a clear view into user interactions

Machine Learning Research at UVa — Research Intern

September 2020 - May 2021

- Researched machine learning algorithms for black box adversarial attacks using Tensorflow and Keras
- Designed and worked on an independent project studying how machine learning models process large amounts of irrelevant data

PROJECTS

Spaceshot Avionics

August 2022 - Present

- Programmed and wired new sensor equipment for the Intrepid III rocket which completed Illinois Space Society's record high launch

SKILLS

Accessible Web Development:

C/C++, Javascript/HTML/CSS, SASS/SCSS, BEM, ReactJS, NodeJS, CMS Development (HubSpot/HubL)

Machine Learning: Python, Tensorflow, Keras

Interactive Graphics: WebGL, GLSL

Databases: MySQL, MongoDB, Neo4J

Containers: Docker, Kubernetes, Helm, cdk8s

Project Management

Technical Communication

Other: Matplotlib, C/C++, GIT, Github Actions, Linux, Windows, MacOS, REST APIs, ROS (Robot Operating System), BASH/ZSH/PowerShell

COURSEWORK

Intelligence and Big Data: Applied ML, Artificial Intelligence, Databases, Social and Information Networks

Machines, Networking, and Security: Systems Programming, Computer Architecture, Computer Security, Distributed Systems, Communication Networks

Math and Algos: Algorithms and Models of Computation, Linear Algebra with Computational Applications, Prob & Stat for CS, Numerical Methods

Software Engineering: Software Design Lab, Data Structures

IOT: Mobile Robotics, Real-World Algorithms for IOT and Data Science

Media: Interactive Computer Graphics, UI Design

ACTIVITIES AND AWARDS

President and Performing Lead, UIUC Mascot Team

Climbing Club

President, Computer Science Club (2019-2021)

Captain, Varsity Fencing (2019-2021)

Eagle Scout

ASK ME ABOUT BEING
UIUC'S NEW MASCOT!