

# LUCAS LASHER

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## EDUCATION

### University of Illinois at Urbana-Champaign

*Master of Engineering in Mechanical Engineering*

May 2022 | GPA: 3.7/4.0

*Bachelor of Science in Mechanical Engineering*

December 2020 | GPA: 3.4/4.0

**Relevant Coursework:** Data Structures, Databases, Computer Systems, GeoData Science, Electronic Trading

## SKILLS

**Programming Languages:** Python, C#, C++, JavaScript, HTML, CSS, MATLAB

**Technologies:** .NET, WPF, RESTful APIs, Flask, SQL, MongoDB, GCP, GitHub

## RELEVANT PROJECTS

### Illini Enterprise Finance App (.NET, WPF, C#, SQL)

- Desktop application offering CRUD functionality for small business finance use case
- Facilitates the creation and retrieval of asset, liability, sales, and payroll information
- Enables one-click balance sheet and income statement generation

### Box Office Booster (Flask, SQL, GCP)

- Built full-stack web application to serve complex SQL queries on custom movie database
- Implemented API-enabled Flask back end and constructed and maintained cloud-based MySQL database

### Beautiful Beadifier (Python)

- Developed application for the reconstruction of images as a mosaic of fuse beads
- Maps image pixel colors to most similar off-the-shelf fuse bead product using open-source dataset

## PROFESSIONAL EXPERIENCE

### University Housing, University of Illinois

Fall 2017 – Fall 2020

*Resident Advisor*

Urbana, Illinois

- Applied an educational approach to assist residents in shaping their individual interpretations of success
- Addressed the unique needs of underrepresented, international, and individual students and successfully incorporated these students into the residence hall and university communities
- Responded in events of life safety, crisis, and other emergencies and significant campus events

### Chevron Chemical

Summer 2021, Summer 2020

*Engineering Projects Intern*

Houston, Texas

- Developed weld and instrumentation scopes of work for implementation of safety-critical process monitoring equipment
- Evaluated process needs and economics in support of installing a new heat exchanger
- Introduced mechanical reliability strategies as site transitioned from reactive to proactive maintenance philosophies

### Illinois Business Consulting

Fall 2019 – Spring 2020

*Consultant*

Champaign, Illinois

- Investigated organizational causes of ineffective risk and issue management for national weapons researcher
- Explored and identified key avenues of new monetization for electronics supplier operating in supply chain SaaS space