

# Elizabeth Sloan

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## EDUCATION

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### Iowa State University

PhD Candidate, Human Computer Interaction

Ames, IA

Expected 2028

- Applied Formal Methods, Advanced Algorithms

### Augustana College

BA, Computer Science, Summa Cum Laude, GPA: 3.9

Rock Island, IL

May 2023

- Data Structures, Algorithms & Computational Theory, Software Development, Database Management, Computer Systems

## DEVELOPMENT PROJECTS

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### AstroMech: Visual-MLTL Toolbox

PhD Research and Development Group

Iowa State University

<https://gitlab.com/temporallogic>

- Lead a team of PhD researchers to create a combined software system for Mission Time Temporal Logic
- Use design techniques to ensure smooth flow of project progress
- Ensure experts needs are met to encourage dynamic contribution among all team members

### Elizabeth Sloan Website

Professional Portfolio Website

GitHub Pages

<https://elizabethsloan.dev/>

- Use Jekyll, HTML, CSS to build a professional website for myself
- Front end design techniques to allow users to predictably flow through the website
- Color theory to create unique branding

### Flex Forecast

Android Development Project

Augustana College

<https://sites.google.com/augustana.edu/computersciencesi/blog>

- User Research on Competing Apps to inform Design Decisions on Layout and Functionality
- Full-Stack Java Development with Emphasis on Connecting API Data to Front End
- Custom Icon and Logo Design and Creation

## WORK EXPERIENCE

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### Augustana Computer Science Department

UX/UI Designer, Scrum Master, Java Developer

Rock Island, IL

September 2022 - May 2023

- Lead a team of 3 other developers in designing and launching CAD and Android software.
- Improved the efficiency of the design process by leading research into user needs, wireframing and testing prototypes, and communicating findings with my team members.
- Provided regular feedback throughout the design and development process using Discord and Scrum Standups.
- Increased usability in designs through user research and feedback throughout the iterative process of development.

## SKILLS & INTERESTS

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### Soft Skills:

Empathy | High Energy | Thrives in Ambiguity | Ability to Drive Positivity | Technical Sophistication | Leadership | Quick to Pivot | Fast Learner | Pattern Recognition | Technical Skill Application

### Technical Skills:

Adobe XD | Angular | C# | C | CSS | Django | Eclipse | Figma | Git/Github | HTML | Java | JavaScript | Jekyll | nuXmv | Photoshop | Python | React | Ruby on Rails | SPIN | SQL | VS Code

### Interests:

Learning New Things | Finding Opportunities to Grow as a Person | Meeting New People | Making Friends | Gardening

### Awards:

Phi Beta Kappa, Phi Theta Kappa, Dean's List

## ADDITIONAL EXPERIENCE

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### Augustana Web Guild

*Project Lead, Web Designer*

**Rock Island, IL**

*October 2021 - January 2022*

- Worked with local business owners to design their websites.
- Presented client needs to the design team and communicated between the design and development team to achieve the client's needs.

### Avocet Map Application

*Software Development Project*

**Augustana College**

<https://elizabethsloan.dev/avocetmapplication/>

- Use Figma to design overall layout before building
- Full-Stack Java Development, Technical Debt Reduction
- Front-end Emphasis with FXML Development

### First Lego League

*Volunteer, Judge*

**Ames, IA**

*January 28, 2024*

**Additional Languages:** Spanish, German, ASL

## Continued Learning

### Video Courses:

#### Design:

- Google UX Design Certificate - Google, Multiple Instructors
- Responsive Web Design Essentials - Daniel Scott
- User Experience Design Essentials - Daniel Scott

#### Development:

- Latex Tutorials - Trefor Basset
- Learn Enough to Be Dangerous - Michael Hartl
  - Command Line, Text Editor, Git, HTML, CSS & Layout
- The Complete Ruby on Rails Developer Course - Multiple Instructors
- Theory of Computation & Automata Theory - NESO Academy
- Theory of Computation - MITOpenCourseWare, Michael Sipser

#### Additional:

- Linear Algebra - Khan Academy
- MIT Physics I-II - Walter Lewin
- Arithmetic through Multivariable Calculus - Khan Academy
- Discrete Math Full Course - Trefor Basset
- Formal Methods - Stan Warford

### Books:

- Design of Everyday Things - Don Norman
- Don't Make Me Think! - Steve Kueg
- Storytelling for User Experience - Quesenbery & Brooks
- Teaching College - Norman Eng
- A Logical Approach to Discrete Math - Gries & Schneider