# Thomas Payton

Ames, IA 50014

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## Education

**Iowa State University** <div align="right">Ames, IA</div>
B.S. in Software Engineering <div align="right">Aug. 2021 - May 2025</div>
- GPA 3.7 / 4.0
- Dean's List All Semesters
- Executive Web Designer for TREND ISU Fashion Magazine, Computer Science and Engineering Club Member, and Hackathon Club Memeber

## Skills

**Languages**: JavaScript, Python, Java, C, HTML, CSS, PHP

**Frameworks and Libraries**: React, React Native, Node.js, Next.js, Express.js, Flask, Django, Bootstrap, Socket.io

**Tools**: GitHub, GitLab, Visual Studio Code, Docker, Figma, Adobe XD, Postman, Heroku, Google Cloud Platform (App Engine), MongoDB, Wireshark

**Experience With**: Cybersecurity Principles, Data Structures, Algorithms, Network Analysis, Pen Testing, UI/UX Design, SEO, Reverse Engineering

## Professional Experience

**Software Engineering Intern** <div align="right">Ames, IA</div>
PeachPay, Inc. <div align="right">Jan. 2022 - Aug. 2022</div>
- Diagnosed and designed a solution to a PayPal payment processing error resulting in approximately 1200 fewer Sentry events annually
- Developed the integration of Amazon Pay, Apple Pay, and Google Pay within the checkout modal leading to a 75% increase in the available payment methods
- Engineered solutions to frontend, backend, and customer-specific issues resolving over 50 assigned tickets

**Veterinary Technician Assistant** <div align="right">Bolingbrook, IL</div>
Brookville Animal Hospital <div align="right">Oct. 2020 - May 2021</div>
- Accompanied and assisted doctors and veterinary technicians through daily tasks and animal checkups, decreasing average checkup times by 3-5 minutes
- Handled phone calls, filing, appointment scheduling, and cleaning on a regular basis to maximize hospital efficiency
- Headed digitizing of patient files dating back 10+ years which led to recycling approximately 5 pounds worth of old files

## Projects

**MERN Social Media Mobile App**
HTTPS://GITHUB.COM/THOPAY/SpamGram <div align="right">Jan. 2022 - May 2022</div>
- Guided a team of five on the development of a REST API backend using Node.js, Express.js, and MongoDB
- Designed and implemented a frontend UI using Figma and React Native to produce a sleek and intuitive user experience
- Connected the UI with the API using Axios and linked mobile clients via Socket.io to create a fully functioning and presentable social media app

**District 203 Cyber Security Campaign**
<div align="right">Nov. 2020 - Jan. 2021</div>
- Assigned by the Illinois District 203 Superintendent to create a campaign to find flaws in district network securities
- Directed the team working on the primary campaign attack vector and successfully exposed network flaws while keeping all exposed data encrypted with a salt only known by district admins
- Created multiple multi-page web application designed to impersonate district, Canvas by Instructure, and Google sign-in flows, which successfully phished multiple staff members

**Flask Sneaker Marketplace**
HTTPS://GITHUB.COM/THOPAY/EasyACO <div align="right">Sep. 2020 - Nov. 2020</div>
- Designed an initial UI mockup with Adobe XD and hosted the web app on a Heroku server for my local community and online friends to use
- Converted a mockup to an actual UI with Bootstrap and JavaScript to hone my frontend development skills
- Developed a full application backend and relational database using Python, Flask, Postgres, and Discord OAuth to allow for smooth and simple website onboarding