Thomas Payton

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EDUCATION

Iowa State University — Ames, IA
Bachelor of Science in Software Engineering, Minor in Cyber Security — *Aug. 2021 – May 2025*
- GPA: 3.7/4.0
- Dean's List all semesters
- Executive Web Designer for TREND Magazine, C.S. and Engineering Club Member, and Hackathon Club Member

EXPERIENCE

Software Engineer Intern — May 2023 – Aug. 2023
John Deere — *Moline, IL*
- Expanded website accessibility for **240,000** annual John Deere customers by implementing 5 new API endpoints in Java Spring
- Improved deployment efficiency and runtime performance of a monolithic application by refactoring over **25** outdated React tests using TypeScript
- Enabled agile delivery of features by participating in daily stand-ups and 2 week sprints for a 5-member scrum team, delivering **95%** of user stories on time over a 3 month period
- Technologies: Spring, Java, TypeScript, React, HTML/CSS

Software Engineer Intern — Jan. 2022 – Aug. 2022
PeachPay, Inc. — *Ames, IA*
- Designed and implemented a solution to a PayPal payment processing error resulting in approximately **1200** fewer Sentry errors annually
- Engineered solutions to frontend, backend, and customer-specific issues, resolving over **50** assigned tickets
- 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
- Technologies: TypeScript, PHP, Koa, WordPress, HTML/CSS

PROJECTS

TREND Magazine Website | *Next.js, Strapi, GraphQL, Postgres, Tailwind CSS* — Jan. 2023 – May 2023
- Designed a complete UI mockup using Figma based on specifications from TREND Magazine Editor-In-Chiefs
- Translated Figma mockups to Next.js frontend using React and Tailwind CSS
- Architected a full-stack blog by building a GraphQL, Strapi, and Postgres backend to host website content
- Deployed Next.js blog to Vercel (**TrendMagISU.com**) and Strapi + Postgres backend to Railway to optimize cost-efficiency

SpamGram | *React Native, Node.js, Express, MongoDB, Socket.io* — Jan. 2022 – May 2022
- 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 create a modern and intuitive user experience
- Connected the UI with the backend API using Axios and linked mobile clients via Socket.io to create a fully functioning and presentable social media app

Sneaker Marketplace | *Python, Flask, Postgres, Discord OAuth, Heroku* — Sep. 2020 – Nov. 2020
- Designed an initial UI mockup with Adobe XD, then wrote UI using HTML, CSS, Boostrap and JavaScript
- Developed a full backend and relational database using Python, Flask, Postgres, and Discord OAuth to allow for smooth and simple website onboarding

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C, PHP, HTML/CSS, Assembly
Frameworks and Libraries: Spring, Next.js, React, React Native, Node.js, Express.js, Koa, Flask, TensorFlow
Developer Tools: GitHub, GitLab, Visual Studio Code, Figma, Postman, Heroku, MongoDB, Amazon Web Services (S3), Wireshark, Vercel, Strapi
Experience With: Data Structures, Algorithms, Network Analysis, Pen Testing, UI/UX Design, SEO, Reverse Engineering