

Bri Kirchgessner

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EDUCATION

University of Wisconsin - Madison

Bachelor of Science in Computer Science

Madison, WI

Expected May. 2025

Database Management Systems, Programming III, Introduction to AI,

Introduction to HCI, Introduction to Algorithms

Broward College - *Dual Enrollment*

Associate's of Arts (A.A)

Fort Lauderdale, FL

Spring. 2019 – May 2022

SKILLS

Java, Python, JavaScript, Dart, Kotlin, HTML, CSS, Thymeleaf, EJS, Spring Boot, Node.js, Express, Flutter, MySQL, MongoDB, Hibernate, AWS, Maven, Gradle, Spring Security, BCrypt, Git

EXPERIENCE

Software Engineering Researcher

MadS&P Lab, University of Wisconsin - Madison

January 2024 – Present

Madison, WI

- Developed an Android privacy-scanning application, SafeScan, under the guidance of Professor Rahul Chatterjee, enhancing user awareness of installed applications and privacy implications for IPV Victims. Utilized Kotlin, Dart, and Flutter.
- Implemented an app-analysis feature scanning and categorizing installed apps based on a 5,000+ record block-listed database, increasing user safety.
- Classified installed apps into categories such as dual-use and spyware, informing users of potential privacy risks.
- Enabled direct links to secure app stores and in-device settings, improving permission management and risk assessment.
- Developed a feature for direct access to Google's account privacy settings, simplifying user access.
- Implemented an ADB feature for remote device scanning via Wi-Fi or USB, reducing the risk of alerting potential abusers.
- Utilized method channels to seamlessly integrate Flutter with native Android functionalities, enhancing app performance and user experience.

Full-Stack Web Developer

Echo The Label (E-Commerce Website)

May 2024 – Present

- Developed a full-stack e-commerce web application utilizing Node.js and Express for the backend, EJS for server-side rendering, and MongoDB for database management, enhancing user experience and backend efficiency.
- Designed and implemented user-session management with MongoDB, ensuring secure handling of user information through password hashing and salting.
- Built an intuitive and responsive user interface using HTML, CSS, and JavaScript, optimizing for both desktop and mobile experiences.
- Integrated a product management system, enabling CRUD operations on products, categories, and collections, improving admin efficiency.
- Implemented AWS S3 for secure image storage, optimizing load times and enhancing application performance.
- Developed file upload functionality using Multer, ensuring proper storage and retrieval of product images.

PROJECTS

Pet Connect

Database Management Systems, University of Wisconsin - Madison

June 2024 – Present

Madison, WI

- Led a team of three in developing "Pet Connect," a web-based pet adoption platform, streamlining the adoption process for rescuer organizations and potential adopters.
- Developed the front end using HTML, CSS, and Thymeleaf, and the backend with Java and Spring Boot, ensuring a seamless experience.
- Implemented secure user authentication using Spring Security and BCrypt for password hashing, enhancing data security.
- Created and tested REST APIs for user and pet functionalities, integrating Google Maps API for pet locations to enhance user interaction.