**Jonathan Hickey**

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**\*\*Eligible for Clearance\*\***

**TECHNICAL SKILLS**

**Programming Languages:** JavaScript (ES6+), TypeScript, Java, Python, C/C++, Bash, PowerShell, Ruby (Basic), Unix/Linux

**Web & App Development:**

* **Front-End:** React, Svelte, Angular, Tailwind CSS, HTML5, CSS3
* **Back-End:** Spring Boot (REST APIs, JPA, Security, Thymeleaf), Node.js, Express.js, Django
* **Build & Runtime Tools:** Maven, Gradle, Bun, Webpack, Vite, npm, pnpm

**DevOps & Deployment**: Docker, Kubernetes, AWS (EC2, S3, RDS, Route 53), Git (GitHub, Gitlab, Bitbucket), GitHub Actions, CI/CD Pipelines, Virtual Machines

**Architecture & Concepts:** Microservices, RESTful Services, Object-Oriented Programming (OOP), Functional Programming, MVC/MVT Architecture, Dependency Injection, Authentication & Authorization (JWT, OAuth2), Test-Driven Development (JUnit, Mockito), Complex Data Structures, Big Data & Data Visualization

**Workflow & Collaboration:** Agile Development, Scrum Project Management, Technical Writing, Team Leadership, Code Reviews, Pair Programming

**Notable Coursework:** Software Engineering, Web Application Development, Data Structures & Algorithms, Operating Systems, Secure Mobile Cloud Computing

**RELEVANT WORK EXPERIENCE**

**Garmin International – Garmin Pay** Boulder, CO

*Software Engineering Intern*  *May 2024 – Aug. 2024*

* Designed and implemented a production-ready Java SDK using Spring Boot, enabling third-party banking applications to securely provision and tokenize user payment cards into the Garmin Pay digital wallet.
* Developed a standalone microservice that emulated an issuing bank’s behavior for robust SDK testing, supporting API simulation for card validation and tokenization scenarios.
* Deployed services to Kubernetes clusters hosted on AWS, leveraging container orchestration and CI/CD workflows to ensure stable rollout and seamless scalability.
* Extended the team’s internal Android testing app to integrate with the newly created SDK and microservice, enabling live simulation of client-side requests and real-time debugging of server responses.
* Collaborated cross-functionally with mobile and backend engineers to align API specifications, maintain documentation, and iterate based on QA feedback.
* Gained hands-on experience with cloud-native development, distributed systems, and the payment tokenization lifecycle in a high-security, fintech environment.

**Yoga Alliance Non-Profit** Colorado Springs, CO

*Data Analytics and Software Development Intern* *Aug. 2023 – Dec. 2023*

* Designed and developed a custom Python-based analytics platform to automate statistical processing on mental health datasets.
* Engineered data pipelines for real-time ingestion, cleansing, and formatting of survey results, integrating directly with analytics tools like R and SAS.
* Developed secure internal APIs for programmatic access to processed data and visualization-ready outputs.
* Implemented custom-built modules to perform tailored statistical analysis defined by non-technical stakeholders, supporting reproducible research.
* Collaborated with mental health researchers and program directors to translate business logic into functional software tools.

**UCCS Department of Computer Science** Colorado Springs, CO

*Teaching Assistant Jan. 2023 – May 2023*

* Served as a Teaching Assistant for an undergraduate-level C programming course, supporting instruction in foundational computer science topics such as pointers, memory management, recursion, structs, and file I/O.
* Graded programming assignments and lab exercises, evaluating code quality, adherence to memory safety, and algorithmic correctness.
* Provided 1-on-1 tutoring and group support during lab hours, helping students debug C programs and develop a deeper understanding of procedural programming.

**RELEVANT PROJECT EXPIRENCE**

**Personal Portfolio Website – hixcode.dev**, **Independent Project** *Jan 2024 – Present*

*Created my own personal portfolio website built using Javascript and React to showcase personal projects, skills, and professional background.*

* Designed and developed a full-stack portfolio website using React for the front-end and Node.js/Express for the back end.
* Deployed the site using Render, implementing build scripts and deployment pipelines to automate build and release workflows.
* Configured a custom domain (hixcode.dev) by integrating Render’s DNS settings with third-party domain registrar tools to ensure reliable routing and SSL support.
* Built responsive, accessible UI components with Tailwind CSS, and added smooth client-side routing with React Router.

**Legiscape Web App, Truewind** *Aug. 2024 – Present*

*Legicape is a JavaScript built political app that allows for US citizens to get free access to information on the politician's that represent them, not only on a federal and state level, but also at a local level.*

* Built the app using the Bun framework and Hono for efficient server-side processing and API integrations.
* Utilized React to create a comprehensive front-end design.
* Integrated multiple APIs, including geolocation-based services, to map user addresses to corresponding political districts.
  + Connected to Google’s Representee API to pull and structure data of legislators representing user’s area when address is put in.
* Incorporated Python scripts utilized for custom data analysis on sourced data to provide in-depth looks at various points surrounding a politician’s work.

**Data Analytical Software**, **Yoga Alliance Intern Project** *Aug. 2023 – Dec. 2023*

*Custom Data Analytics software developed in Python to quickly run custom analytical processes designed by the client.*

* Created a modular, extensible Python application to support dynamic analytical workflows on post-survey datasets.
* Integrated third-party tools (e.g., pandas, NumPy, matplotlib) and external analytics platforms (SAS, R) for multi-environment support.
* Built automatic data cleaning scripts triggered on survey submission, enabling real-time processing and storage.
* Developed an internal authentication framework and lightweight database structure for secure access and retrieval of analytics results.
* Deployed solution for internal use by Yoga Alliance staff to support program assessment and grant reporting.

**Inventory Web App, Independent Project** *Sep. 2023 – Jan. 2024*

*Web App developed with Django to track inventory of food items with ability to read Excel files into database made for my dad’s personal food truck business.*

* Implemented Model-View-Template (MVT) architecture to handle dynamic interaction between the Python backend, data models, and user-facing templates.
* Integrated functionality to import and parse Excel spreadsheets into the app’s PostgreSQL database, streamlining inventory input from offline records.
* Engineered a responsive, user-friendly UI using custom HTML, Bootstrap, and embedded Django template tags, tailored to non-technical users.
* Developed REST-style API endpoints to support future integration with mobile POS systems.
* Conducted unit testing on core features to ensure stability and maintainability across updates.

**EDUCATION**

**University of Colorado –** **Colorado Springs (UCCS), 05-2025**

*Bachelor of Science in Computer Science (Cybersecurity), ABET Accreditation*

* Chancellor’s Award Scholarship
* National Honor Society Member
* Association for Computing Machinery Club Member and Officer
* National Cyber League Member/Participant
* GPA 3.62