

# Michael Kennedy

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## SUMMARY

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Tenacious and detail-oriented Software Engineer with experience in developing both front-end and back-end applications. Passionate about creating innovative, user-centric solutions. Renowned for excellent communication skills, building strong relationships with stakeholders, and advocating for accessible design. Highlights include developing a scalable PDF tracking solution, an intuitive user-friendly code review application, and an automated website accessibility evaluation utility. Committed to fostering a supportive culture of cross-team collaboration and professional excellence.

## EXPERIENCE

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### Heritage Bank NW

June 2022 - January 2024

*Software Developer 1*

Burlington, WA

- Collaborated with banking analysts to implement features and resolve bugs in Heritage Bank Northwest's banking relationship and treasury management applications
- Integrated Bottomline SOAP API to automate onboarding Treasury Management products for customers, eliminating on average 111 clicks per product and reducing the implementation lead time by 50%
- Spearheaded an 80% reduction in integration time for new services within the Treasury Management application by eliminating hard-coded values and introducing a database-dependent solution
- Designed, developed, and tested an interactive application that displays a visual diff of code changes using React.js components to streamline the code review process, enabling both developers and non-developers to quickly identify and review changes made while working on a ticket
- Refactored existing REST API in the Java back-end server to improve code quality, and implemented new features to existing API

### Viking Union (VU), Western Washington University

June 2019 - December 2021

*Computer Maintenance Technician*

Bellingham, WA

- Acted as the sole on-site technician providing in-person and remote support during COVID-19 lockdown
- Deployed software and hardware to machines and over 50 offices located throughout the Viking Union
- Replaced the 3tb shared network drive used by over 200 VU employees with a new 100tb Synology NAS Device
- Researched, tested, and deployed a single-application kiosk to the VU information desk using Windows 10, PowerShell, Internet Explorer 11, and local group policy configuration
- Created Bash shell scripts to automate the wiping and reformatting of recovered USB drives in the VU's lost and found

## TECHNICAL SKILLS

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**General Experience:** Data Structures, Algorithms, Databases (SQL and noSQL), Git, CI/CD, Docker, Maven, Azure, SOAP, REST

**Languages:** Java, Javascript/Typescript, Python, Dart, Bash

**Frameworks:** React.js, Node.js, Next.js, Flutter, Django, Flask/FastAPI, Bash

## PROJECTS

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### Bellingham Rental Reviews

February 2024 - Present

*Next.js, Typescript, MongoDB, Firebase, Python, Selenium*

- Designed a custom web scraper using Python and Selenium to gather information from Yelp and Google on over 200 property management companies and apartment complexes in the Bellingham, Washington area
- Extracted and unified data into JSON format, and adjusting review metrics for clarity and consistency
- Utilized OpenAI to analyze JSON data and generate HTML articles for each entity, enriching data insights and presentation
- Wrote documentation to outline the purpose of the project, as well as technical information on the scripts used to gather data
- Created an accessible website using Next.js to showcase AI-generated reviews, stored in Firebase NoSQL database

### Accessibility Testing Automation Application

July 2021 - January 2022

*Sails.js, Vue.js, Selenium, Python, Deque aXe API*

- Led a team of 4 in the development of a full-stack accessibility checking application for Wandke Consulting -- an accessibility consulting company in Bellingham, WA
- Facilitated code reviews for new features and gave feedback to team members
- Utilized Deque Labs aXe accessibility API and Selenium Webdriver to scan websites and test for over 350 Web Content Accessibility Guideline (WCAG) violations
- Implemented REST API routes in the Sails.js backend and integrated a custom Python web crawler

### Web Content Accessibility Guideline (WCAG) Reference CJS

July 2021 - January 2022

*Javascript*

- Forked and modified the NodeJS Package "WCAG Reference" to work as a CommonJS import
- Created a function to locate and return all WCAG success criterion of a given level (A-AAA)
- Upgraded the WCAG scrapers to include short and long descriptions of WCAG guidelines in the JSON output
- Utilized Github Actions to deploy updates to Npmjs.com

### ReLeave

January 2021 - March 2021

*Flutter, Sqlite*

- Led a team of 4 in the development of a cross-platform mobile application to assist people going through cannabis use disorder recovery
- Conducted research, and interviewed Substance Use Disorder specialists with Sea-Mar Community Health Centers to develop a list of functional requirements
- Integrated Reddit API using the Dart Reddit API Wrapper (DRAW) to interact with over 200,000 users on the /r/Leaves subreddit

## EDUCATION

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### Western Washington University

September 2016 - December 2021

Bachelor of Science in Computer Science, Minor in Communication Studies

Bellingham, WA