Zacharias Bahm
Software Engineer

🏠 West Lafayette, Indiana
📞 +1 (916)-542-0288
✉ zakbahm@gmail.com

in LinkedIn
 GitHub
 Portfolio

EXPERIENCE

Software Engineer — **Jul 2021 — Present**
Ology Newswire, Inc. — Remote

- Created a Typescript NodeJS CLI tool (psqr) for managing did:psqr identities and publishing signed articles.
- Collaborated on a Symfony project (psqr-api) for hosting did:psqr identities and article feeds.
- Designed a VueJS progressive web app (PWA) (ology.com) for displaying article from feeds and maintaining an identity.
- Devised a Python script for text parsing and cleaning of news articles; and then performed Named Entity Recognition using Spacy3.0 to match with similar articles.

Software Engineer — **Jun 2016 — Jun 2021**
NewPress LLC — Remote

- Constructed a pipeline for Liquid Social to automatically ingest content from partners and generate Android TV, Amazon Fire TV, and Roku apps to view content.
- Assisted memes.com with website development and created a REST API and a GraphQL API for site management.
- Collaborated on a Symfony-based CMS that generates websites with Google AMP & Facebook Instant Articles support.

Freelance Developer — **Apr 2021 — Present**
Prof. Erik Hesse at UC Berkeley — Remote

- Developed Symfony-based website (mainattachment.org) to inform users of attachment theory (a field in developmental psychology) and administer reliability tests for classifying Adult Attachment Interviews.
- Built and deployed an Electron program to receive, decrypt, and print test cases for users undergoing Adult Attachment Interview reliability tests leading to certification as a reliable Adult Attachment Interview coder.
- Maintained Cloud-based services such as EC2 instances, SES, Route 53, and S3 to provide the website and printing program.

Freelance Developer — **Apr 2020 — Aug 2020**
VideoBridge — Remote

- Developed bash-based program to automate content ingestion of VideoBridge partner's YouTube channels.
- Designed and deployed company website using bootstrap and S3.

PROJECTS

Music Scan Visualizer
- Developed a VueJS PWA for viewing and exploring a cluster graph of songs that have been grouped by similar audio features extracted from CNNs. The user can filter genres to find the songs that belong to multiple genres.
- Created pipeline to label and identify similar songs to the new song input by the user.
- Added functionality to automatically or manually generate playlist based on the similar songs identified in the cluster.

Self-Hosted Apps
- Deployed a number of different services to a home server for personal use. Services include: NextCloud for a personal cloud service like Google Drive, Emby for media hosting, Wireguard VPN for remote access, Gitea for a personal git server.

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, NodeJS, PHP, Python, Java/Kotlin, HTML, CSS, SQL, Bash
Databases/APIs	MySQL, MariaDB, DynamoDB, NoSQL, Redis, REST, GraphQL
Frameworks	Symfony, VueJS, React, Electron, Bootstrap
Software	AWS, Git, Github, Docker, VSCode, Linux

CERTIFICATIONS

AWS Certified Solutions Architect	**Jul 2019**
AWS Certified Cloud Practitioner	**Aug 2019**

EDUCATION

University of Maryland Global Campus, Baltimore, MD — **Expected Graduation 2024**
Bachelor of Science, Computer Science GPA: 4.0/4.0