Sierra Acy

Full-Stack Engineer with 6 years experience based in Seattle, Washington
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EXPERIENCE

Self-Employed, Programming and AP Computer Science A Tutor   **August 2023 – Present**
- Instruct 28+ K-12 students individually, specializing in AP Computer Science A (Java) and introductory programming (Java and Python)
- Develop tailored lesson plans in Java or Python, customized to each student's age and proficiency level
- Assess student requirements, swiftly grasp context, and deliver targeted guidance to aid comprehension and completion of coursework and assignments

Warner Bros. Discovery, Software Engineer II   **November 2021 – March 2023**

Client Data Ingestion:
- Protected data quality standards and facilitated the development of new tools through test-driven development, clean shutdown procedures, and clear, verifiable standards for test and code quality.
- *Graceful Shutdown:* Implemented graceful shutdown of data transformation service in response to a SIGTERM signal in the Kubernetes pod, ensuring seamless termination and system reliability
- *Data Transformation & Integration:* Utilized Python to parse CSV and SQL files, crafting Snowflake SQL commands through Sqitch for optimized data transformation and integration
- *Legacy Backfill Tool Revitalization:* Transformed legacy tool to rectify incorrect and missing data in the DB. Gathered requirements, developed new JavaScript workflow, rigorously tested the AWS-Kubernetes-Snowflake pipeline, and wrote comprehensive documentation
- *TDD Excellence:* Employed test-driven development for two new services serving the new Max app, writing Jest unit tests to ensure robust functionality and code integrity.

Microsoft, Software Engineer I   **October 2020 – October 2021**

Datacenter Planning and Execution Engineering - Land Engineering
- Orchestrated a seamless migration to a new datacenter planning tool, enhancing efficiency by automating process tracking and legal compliance enforcement, while also creating user training videos for effective onboarding.
- *Data Migration:* Orchestrated a Power Automate workflow, facilitating a smooth transition from legacy data input to Dynamics365. Minimized end-user disruption during the MVP product launch, ensuring a successful migration.
- *Dynamics365 Enhancement:* Implemented key Dynamics365 features, including record cloning, automated email notifications, and spend tracking using Power Automate and JavaScript, allowing customers to focus on important tasks over house-keeping tasks
- *Documentation Excellence:* Authored detailed feature documentation and produced six demo videos for internal customers. This comprehensive approach significantly improved user understanding and adoption rates.

Microsoft Community
- Organized and hosted three Pub Trivia events, boosting cross-functional understanding of the datacenter pipeline and fostering team cohesion
- Hosted two virtual dance parties for Summer 2021 interns through Microsoft Dance group. Contributed to a highly satisfying experience with increased engagement.

The Walt Disney Company, Software Engineer   **April 2017 – October 2020**
- Engineered a variety of UI and API-based tools for enhanced ease-of-use, benefiting content creators from industry leaders like ESPN, ABC, and Pixar.

Genome – Video Search and Metadata Service

- *Pipeline Development:* Owned end-to-end data pipeline—from ingestion to UI display—utilizing Elasticsearch, Java, REST API, AngularJS, SPARQL, various AWS services.
- *Demos:* Successfully prepared for two time-sensitive demos for The Simpsons creative team and Pixar executives, showcasing adaptability and meeting high-profile expectations.
- *Elasticsearch Migration:* Migrated API service to query Elasticsearch, doubling response time and ensuring synchronized data across APIs
- *Storyline Feature:* Architected high priority feature highlighting unique video metadata. Drove end-to-end implementation across API design, data transformation, and UI layers using Java and AngularJS
- *Release Management Excellence:* Led initiative to streamline versioning and release management processes, enhancing overall efficiency and coordination across the team

GoPublish – Content Management System
- *Streamlined Integration:* Designed and implemented AWS architecture to integrate custom ESPN tool with third-party tool
- *Admin Portal:* Spearheaded development of user interface in React for admin portal, enabling users to request data reingestion and track progress

Disney Community and Recruitment
- *Seattle Office Internship Program Leader:* Guided and mentored appx 60 interns over three years, conducting weekly sync-ups, intern presentations, and social events. Demonstrated leadership and achieved overwhelmingly positive feedback from program participants.
- *Job Shadows:* Facilitated job shadowing experiences for five Computer Science students from two universities, offering insights into industry practices and potential career paths
- *Recruiting Events:* Represented the company at six recruiting and hacking events at universities in Washington, California, and Texas, fostering brand visibility and attracting top-tier talent

Internships   **2015 – 2017**
- *Content Management Systems Team:* Designed new user interface for a media asset management system using Vue.js and Webpack
- *Emerging Technology Solutions Team:* Implemented solution for conference room occupancy detection using Raspberry Pis and motion sensors, programmed in Node.js with MongoDB integration. Enhanced office space utilization.
- *Unified Messaging Team:* Created SMS and email template previews using JavaScript, HTML, jQuery, and Knockout. Enabled users to preview communications with actual user information inserted.

SKILLS
- *Technical Skills*: Java, Typescript, JavaScript, Python, Node.js**,** ReactJS, AngularJS, HTML, Vue.js, jQuery**,** JSON, REST API Design, Amazon Web Services, Elasticsearch, Terraform**,** SQL, SPARQL
- *Soft Skills:* Public Speaking, Mentorship, Event Planning

COMMUNITY INVOLVEMENT
- *Microsoft TEALS:* Teacher and TA for high school AP Computer Science A course, 2017 – Present
- *Mentors in Tech:* Mentored two college students from nontraditional backgrounds, 2020 – 2021
- *Hour of Code:* Volunteer Coordinator for the Department of Computer Science, UT Austin 2015 and 2016

EDUCATION
The University of Texas at Austin, Austin, TX   **August 2013 – December 2016**
Bachelor of Science and Arts in Computer Science, Minor in Music