# Senna Titcomb

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## SKILLS AND TRAINING

Cloud Native Development Tools: **AWS** (ECR, ECS, EKS, S3, Amplify, DynamoDB, Cognito, Sagemaker, VPC, EC2, IAM, Lambda, Prometheus, Grafana), **Docker, Kubernetes, Terraform**

Programming Development Languages: **C++, C, Python, Java, HTML, CSS, JavaScript, Assembly, SQL, Go, Kotlin**

Operating Systems: **Windows, MacOS, Linux, iOS, Unix**

Software Development and Collaboration Tools: **JIRA, Github, Waterfall, Agile, SDLC, Helm, Figma, UI/UX Design**

CICD Tools: **Jenkins, Step Functions**

Other: **Microsoft Office, Jaeger, Zendesk, Zoho, Adobe, React, Node.js, Project Management**

## EXPERIENCE

**Marketing and Analytics,** Mass Ingenuity **— Oct 2023 - Present**
- Focus on enterprise performance management using SaaS based solution to drive results with performance data, visual analytics, and actionable insights. Help to achieve results and make critical business decisions.

**Cloud Software Engineer Undergraduate Intern**, Intel **— May 2022 - Aug 2023**
- Architecture and development from design to production of a SaaS observability platform for cloud native workloads
- Architecture and design of end-to-end hybrid and cloud native data pipeline for Intel workloads
- Collaborated and leading of cross-functional teams to diagram and transition from manual to cloud-based processes
- Architecture and development of pre-silicon workload analysis services for projecting performance on future platforms
- Containerized services for data analysis and consolidation of performance metrics
- Completion of feature-rich platform with dynamic UI, user authentication, and responsive components
- Implementation of IaC with Terraform to automate provisioning and management of cloud resources
- For all services, followed principles of opentelemetry, scalability, multi-tenancy, and self-service
- Utilization of technologies such as AWS, React, Node.js, HTML/CSS/Javascript, Figma, SQL, Go, Terraform

**Undergraduate Learning Assistant,** Oregon State University **— March 2021 - June 2021, Jan 2022 - March 2022**
- Work weekly with Computer Science Professor to design programming assignments, project documents, and review worksheets
- Grade programming assignments and provide specific feedback
- Hold office hours for individual mentoring and grading
- Lead and teach weekly computer labs to college students using C, C++, Python
- Focus on problem solving, software engineering, object-oriented programming, algorithm design and program development

**Microservices Observability Intern**, Intel **— July 2021- December 2021**
- Part of automation tool development team that develops and maintains end to end services framework for Intel
- Extended Intel trace and distributed tracing capabilities for multiple internal and external use cases
- Focus on distributed systems, cloud-native observability, Jaeger traces, Kubernetes, AWS services, Docker, and data visualizations
- Work in an Agile environment with weekly sprint plannings and incremental deliverables
- Creation of Jupyter Notebook visualizations, whitepapers, wiki articles, and technical documentation
- Presentation of work to principal engineers and architects, software engineering managers

**Girls Love Technology, Coding, Hacking (GLTCH) Founder and President — 2019 - 2021**
- Creation of presentations, emails, documentation on computer anatomy, coding basics, and ethical hacking
- Provide learning resources, camp/competition/workshop information, connections and recommendations to technology professionals

## RELEVANT PROJECTS

**OpenTelemetry Data Analysis Platform —** 2022 - 2023
*AWS, React, Node.js, HTML/CSS/Javascript, Figma, Terraform*
Real-time telemetry data analysis visualizations for internal Intel customers. Functional and responsive UI for authenticated users to access experiments, download configurations, link to visualization dashboard. Opentelemetry collector on back-end. Fixing issues around comprehensivenss, efficiency, and bandwidth.

**Business Intelligence Project: From SQL Tables to Visual Analytics —** 2023
*AWS, SQL, HTML/CSS/Javascript, Node.js, Python*
Extraction of data from SQL databases and transforming into user-friendly dashboard for filtering, analysis, download, and reporting.

**WeRide: Transit Application —** 2022
*UI/UX Design, Figma*
Utilization of UX process, personas, prototyping, user testing, visual design, interaction design. Creation of POC broad-use transit application to suggest best mode of transportation in regards to price, time, convenience, and distance. Focus on international student accessibility and user satisfaction.

## EDUCATION

Oregon State University - Bachelor of Science in Computer Science, Minor in Psychology (*Dean's List, Honor Roll, Magna Cum Laude*)