

# Alex Ayala

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## EDUCATION

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**The University of Texas at Austin**, Austin, TX

*Bachelor of Science in Computational Biology – (December 2021)*

- Computer Science Minor

## EXPERIENCE

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**Software Engineer I, JPMorgan Chase & Co**, Dallas, TX

*June 2022 – Present*

- Created automated functional tests that directly saved 100+ hours of man hours per sprint
- Assisted in seamless migration of API to Oracle databases with zero downtime.
- Reworked legacy code features to align with modern object-oriented programming principles.
- Managed blue/green deployments globally using Jenkins.
- As Team Captain, led my team to 1st place finish in AWS Deepracer which uses reinforcement machine learning
- Assisted in transitioning on-premises services to AWS cloud with a Cloud Practitioner Certification
- Led Agile scrum retrospectives in order to identify pain points in the team's workflow

**Data Research Analyst**, Dau International

*August 2021– June 2022*

- Conducted research and cleaned data on the cybersecurity industry and its major players
- Identified trends in over 1000 companies to locate critical components of successful tech companies

**Programming Research Assistant, PyNets - The University of Texas at Austin**, Austin, TX

*January 2020 – August 2021*

- Analyzed connectome data from fMRI scans to accurately predict mental illness using Dell's Linux cluster (TACC)
- Created and revised unit tests for existing functions to ensure proper outputs and formats
- Initiated the transition of the software from Linux to Windows in order to reach more users

## TECHNICAL SKILLS

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- **Certifications:** Amazon Web Services Cloud Practitioner
- **Programming:** Java, Javascript, SQL, AWS, Spring Boot, Machine Learning, Object Oriented Programming, Python, Jenkins, Kubernetes, Oracle Database, HTML5, Data Science, C, R Studio
- **Communication:** Agile Workflow, Spanish (Fluent)

## PROJECTS

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- **Meal Planning Site** - Created a website that allowed users to create, manage, and share recipes and meal plans. Designed database architecture as well as using cloud deployment to release the website. My team was involved with creating the full stack from scratch. Skills: Java, Javascript, HTML5, CSS, SQL, Agile
- **Credit Rewards Program** - As part of the Software Engineering Program, my team designed and implemented different methods of cashing in rewards points. We were a self managed agile team that had to decide which goals provided the most business value to users. Skills: Java, React, SQL, Agile
- **Evolutionary Paper Analysis** - Analyzed a literature dataset using MANOVA testing, logistical regression, and k-fold cross-validation to train a machine learning model to predict if a paper contained mathematical formulas.
- **TankerTot Video Game** – Co-created a web based puzzle video game. Skills: Javascript