# Armando Arevalo

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## WORK EXPERIENCE

**InCylce Software Inc** **Aug. 2022 - Feb. 2023**

*Data Science Intern* *Remote*

- My project comprised building a dashboard for company sales data to inform sales team on: deal velocity through sales pipeline, likelihood-to-close successfully, and high-touch/low-touch client interaction to redirect efforts.
- Using **Azure Databricks** to perform EDA, preprocess raw data, anonymize sensitive information to prevent data leakage risks, calculate deal velocity and rolling-mean velocity, apply Naïve Bayes ML algorithms to build models to predict likelihood-to-close at each step in sales pipeline, leverage temporal features to classify deals as high or low touch, organize trained models and notebook's input and output data in well-structured Delta table folder system.
- Design a **Power BI** dashboard having charts and tables that summarize deployed processed data, at both all-deals level and single-deal level, integrating drill-through capabilities.
- Using **Azure Data Factory** to automate processing and deployment of new data to dashboard each week utilizing an orchestration pipeline that triggers when new data is available, finalizing by sending Outlook notifications upon successful execution.
- Use Azure DevOps to track weekly progress, use repos to backup code, and document project with schematics in MS Visio and workflow outlines in Markdown.

**James Analytis Condensed Matter Physics Lab, at UC Berkeley** **Jan. 2020 - Aug. 2021**

*Undergraduate Researcher* *Berkeley, CA*

- Prepare $RuCl_3$ crystal samples for analysis by grinding and using microscope to achieve micron-level thickness, masking samples with resin to coat gold injector-detector contacts, and soldering wiring to sample contacts.
- In Jupyter notebooks, create visuals for simple 2D diffusion simulations using PDE numerical methods with varying initial and Dirichlet-Neumann boundary conditions using Python.
- Use COMSOL Multiphysics to design 2D magnon diffusion simulations in a magnetic insulator (YIG) by injecting spin via Spin Hall Effect for various initial and boundary conditions.
- **Extensive** research, summarization, and presenting on successful literature to give direction for research.

## EDUCATION

**University of California, Berkeley** **May 2021**

*B.A., Physics* *Berkeley, CA*

- **GPA: 3.59 / 4.0**; *Cum Laude*, Regents' and Chancellor's Scholarship

**Cuyamaca College** **May 2019**

*A.A., Physics; A.A., Mathematics; A.A., University Studies - Science and Mathematics* *Rancho San Diego, CA*

- **GPA: 3.94/4.0**; President's Honor List; Phi Theta Kappa Honors Society, Omicron Chapter (*President*); STEM Club (*Senator*); Physics Tutor

## CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** Microsoft Certified Azure Data Scientist Associate, AWS Certified Cloud Practitioner
- **Skills:** analytical, critical and abstract thinking; problem solving; data processing, analysis and visualization; statistical analysis; machine learning; advanced mathematics; aresentation skills; reading comprehension; technical writing; **Azure:** DevOps, Databricks, Machine Learning, and Data Factory; Power BI; GitHub; LaTex; Python; PySpark
- **Interests:** Listening to music; running, swimming, and hiking; reading e-books; watching movies; playing guitar