

FIONA DING

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TECHNICAL SKILLS

COMPUTATIONAL: EXPERIENCED: Python, C/C++, SQL, Tableau, ROOT, MS Access
BASIC: Java, UNIX, MatLab, VBA, \LaTeX

WORK EXPERIENCE

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|----------------|-------------------------------|
| Current | Crossover Health |
| 2018–Present | <i>Data Scientist</i> |
| 2016–2018 | <i>Reporting Analyst 1, 2</i> |
- Early member (second hire) of the Analytics team, which won the annual Big Wave award in 2016 for impact on the company
 - Build and implement machine learning models to predict medical outcomes and improve operational procedures
 - Build and maintain a MySQL data warehouse with ETL processes using Python/SQL scripts to transform data from sources such as API calls, claims data, internal sources, etc.
 - Set up automation of data pipeline using Luigi
 - Build reports and dashboards in Tableau tailored for the intended user
 - Instituted many best-practice standards amongst team, e.g. version control, test suites
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| 2015–2016 | County of Santa Clara - Social Services Agency |
| | <i>Associate Management Analyst</i> |
- Designed and created a complete database from scratch, used for tracking worker registrations and statuses
 - Created back-end of the database, which involved data cleaning, database design, and writing SQL queries
 - Implemented and tested front-end application using VBA, allowing user-friendly data-entry and querying
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| 2009–2014 | University of California, Davis |
| | <i>Graduate Researcher/Teaching Assistant</i> |
- Studied the properties of the quark-gluon plasma formed in high energy heavy-ion collisions at the STAR detector at RHIC (Relativistic Heavy Ion Collider)
 - Analyzed large data sets ($\sim 10^8$ events), using ROOT and C++

EDUCATION

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| DEC. 2011 | University of California, Davis - Davis, CA |
| | M.S. in PHYSICS |
| MAY 2009 | Carnegie Mellon University - Pittsburgh, PA |
| | B.S. in PHYSICS, with Minor in MATHEMATICAL SCIENCES |