

Jacob Annis



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Durham, NC



<https://github.com/BIGJRA>

EXPERIENCE

- **Software Developer (Contract)**
mAbXell, Inc., Mountain View, CA
 - 10/2021 - PresentUses Python to develop custom biomedical lab automation processes. Optimizes data processing to save crucial time for critical COVID-19 related research purposes.
 - 12/2019 - 02/2020Used Python to develop custom DNA sequence analysis processes.
- **Personal Project**
 - **Game of Risk**Uses Python to create customizable, interactive game with complete game logic, input/output, and GUI.
80% completion.

CERTIFICATES

- **Fundamentals of Computing Specialization**
Rice University Faculty, Coursera. Compl. 10/2021.
 - Intro. to Interactive Programming In Python 1-2
 - Principles of Computing 1-2
 - Algorithmic Thinking 1-2
 - Fundamentals of Computing Capstone Exam
- **PostgreSQL For Everybody Specialization**
U. of Michigan Faculty, Coursera. Compl. 10/2021.
 - Database Design and Basic SQL in PostgreSQL
 - Intermediate PostgreSQL
 - JSON & Natural Language Processing PostgreSQL
 - D.B. Architecture, Scale, & NoSQL w/ Elasticsearch
- **Command Line in Linux**
Coursera Project Network, Coursera. Compl. 9/2021.
 - Command Line Guided Project
- **Data Structures & Algorithms Specialization**
U.C. San Diego Faculty, Coursera. In Progress.
 - Algorithmic Toolbox
 - Data Structures

EDUCATION

- **Mathematics, B.S. 09/2017 - 06/2021.**
University of California, Santa Barbara
 - GPA: 3.82 / 4.00. "High Honors" Distinction.
 - Minor: Philosophy
 - Key Courses: Abstract Algebra I-III, Real Analysis I-II, Complex Variables I, Combinatorics/Graph Theory, Numerical Computation, Computer Systems, Advanced Linear Algebra I-II, Topology, Vector Calculus I-II, Discrete Math, Intro. Comp Sci, Differential Equations.
 - Award: Academic Excellence Award
 - Other Academic Studies:
 - (1) Worked with graduate student to study a graduate Polytopes text in Math Dept.'s Directed Reading Program. Created LaTeX poster and presented to UCSB faculty.
 - (2) Studied abroad at University of Auckland for Winter & Spring 2020 via the Education Abroad Program.
 - GRE Exam:
 - (1) 170/170 Quantitative Reasoning
 - (2) 163/170 Verbal Reasoning
 - (3) 5.0/6.0 Analytical Writing

SKILLS

- **Technologies**
 - **Python** Programming. Builds high-quality, readable code. Effectively employs unit testing framework and debugging techniques. Broad knowledge of data structures, algorithm implementation and optimization.
 - **PostgreSQL** Database Management. Knowledgeable on database optimization, indexing, and C.R.U.D.
 - **LaTeX** Technical Documentation. Skilled in professional mathematical communication.
 - **Windows and Linux** commands.
 - Microsoft **Excel/Powerpoint/Word**.
- **Personal Skills**
 - Communicates well with team leader as collaborator.
 - Effective at delegation, mentoring and coaching.
 - Extremely organized, never misses deadlines!
 - Dedicated to following work through to completion in fast-paced environments.
 - Learns quickly and studies efficiently.
 - Strong desire to improve systems to better peoples' lives!