jrjunaidi@ucdavis.edu   (916)-365-7393

JAMES R. JUNAIDI

linkedin.com/in/jamesjunaidi/ | jamesjunaidi.github.io | github.com/jamesjunaidi

EDUCATION:

University of California, Davis

Bachelor of Science in Computer Science | Exp. June 2022 | 3.93 GPA

- Minor in Economics.
- Relevant Coursework: Algorithm Design and Analysis, Computer Architecture, Data Structures, Machine Dependent Programming, Discrete Maths, Intermediate Microeconomics, Intro to Data Science, OOP in C++, C.

EXPERIENCE:

RF Engineer Intern at T-Mobile: June 2020 - Sept. 2020 | Sacramento, CA

- Modeled cell site data, network cluster performance KPI's, and prepared milestone reports.
- Automated spreadsheet tasks in Python and created interactive reports using PowerBI and Qlik Sense.
- Saved ~10 engineer hours per week by automating a report process through Qlik Sense.

Co-Founder and Developer at Komma: Jan 2020 - Present | Davis, CA

- Co-Founder and developer of an events management application to connect students and organizations easily.
- Built a full stack web app using the MERN stack (MongoDB, Express, React, Node).
- Interacted with real UCD clubs and students to gain insights into building a real-world, useful application.

Web Developer at #include @ Davis: Jan. 2020 - May 2020 | Davis, CA

- Developed web pages for non-profit organizations.
- Work with design teams and front and back-end teams to implement a complete website using HTML/CSS.

TECHNICAL SKILLS:

- Proficient in Programming: C, C++, Python, Java.
- Experience in: Swift, Javascript, React, R, HTML/CSS, XML, SQL, Assembly.
- Development Tools: Unix, Mac OS, Windows, Git, Google C++ Unit Test.
- Strong background in Statistics and Data Analytics, with experience scripting in Python and R.

TECHNICAL PROJECTS:

Shopper Alert:

- Built a Python application during LAHacks '20 (UCLA) that sends text alerts regarding the inventory of essential items to help people at high risk during the COVID-19 pandemic.
- Sent and received texts through a GUI used to send out inventory notifications to phone numbers in a database.
- Used the Twilio API (for text messages) and other Python libraries including Tkinter (for a simple GUI).

Data Structure Implementations:

- Implemented various data structures from scratch using modern C++.
- Implemented deque, stack, AVL tree, set/multiset, map/multimap.
- Implemented a postfix calculator, prime factorization calculator, and task scheduler using the data structures.

Floating Point Calculator:

- Implemented a calculator for 32 bit floating point numbers without using the "+" and "-" operators.
- Used C++ and inline Assembly to perform this task.

Statistical Analysis of COVID-19 Genomes:

- Wrote R scripts to perform analysis of genomes in the Washington cases of the COVID-19 outbreak.
- Investigated differences between the Washington genomes and genomes throughout the rest of the world with Levenshtein Distances.