Daniel R. Olsen

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OBJECTIVE:

I am a dedicated, newly graduated software developer looking for a position at a company where I can not only use my ability to design, develop and maintain software applications, but to also have the scope to expand and improve my current skillset.

EDUCATION:

California State University Sacramento   *July. 2019 – Dec. 2021*
Bachelor of Science, Computer Science (Statistics Minor)
Honors: *magna cum laude*

Sacramento City College
Associates of Science, Information Systems Security

RELATED COURSES:

Operating System Pragmatics   Computer Networking Fundamentals
Advanced Computer Organization   Cryptography
Intro Computer Architecture   Intro Systems Programming in UNIX
Data Structures and Algorithm Analysis   Differential Equations
Object-Oriented Computer Graphics Programming   Introduction to Probability Theory
Computing Theory and Programming Languages   Introduction to Mathematical Statistics
Intro Software Engineering   Database Management Systems

KNOWLEDGE AND SKILLS:

Computer Languages:
C, C++, JAVA, SQL, Python

Tools & Technologies:
Version Control (GIT), Debugger (GDB), TCP/IP, RESTful APIs, MongoDB

PROJECTS:

cosmOS   **Technologies and Languages:** C, GDB, Assembly   **GitHub**

- Implemented round robin scheduling in this multitasking operating system.
- Utilized spin locks and mutex locks to allow for processes to interact with one another in a safe manner.
- Developed kernel mailboxes for data exchange between processes using asynchronous sending and synchronous receiving.

Beware of Birds Game   **Technologies and Languages:** Java 11, Codename One   **GitHub**

- Followed software engineering design patterns to create a highly cohesive and loosely coupled Game.
- Created and acquired assets to be used inside the game which greatly improved the visual and auditory experience.
- Utilized Codename One which has major similarities to Swing to create a User Interface and on-screen controls.
- Mapped on-screen controls to keys allowing smoother gameplay when using a Keyboard.
- Utilized Object-Oriented Programming (OOP) principles such as Abstraction, Inheritance, and Polymorphism to keep the codebase and structure easy to read and understand.

Nirvana   **Technologies and Languages:** React Native, MongoDB, Docker   **GitHub**

- Added password encryption in a middleware function using bcryptjs to safely store passwords in our MongoDB.
- Implemented basic email functionality using node mailer which sent a password reset link that contains a parameterized password reset token allowing users a way to reset a password in case they forgot.
- Front-end design of iOS mobile application using React Native.
- Designed API routes and their respective middleware functions to achieve a complete application.

WORK EXPERIENCE:

Mathematics Tutor   *Sept. 2015 – July 2019*   Sacramento City College
- Evaluate students' needs in the designated mathematical level ranging from pre-algebra to differential equations.
- Provide students with effective learning techniques to overcome and learn the topics in their selected math course.
- Explain a wide variety of mathematical topics in many ways to help the student learn more effectively.