Matan Segal

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PROFESSIONAL SUMMARY:

- Senior Computer Engineering major in the top 1% of the class
- Completed internships, positions, and projects, gaining experience in Web dev, React, AWS, and open source libraries
- Awarded full athletic scholarship for SMU swimming, competing in NCAA D1 meets and championships

EDUCATION: **Southern Methodist University** Dallas TX
Bobby B. Lyle School of Engineering Graduation date: May 2021
Bachelor of Science in Computer Engineering, Minor in Mathematics **GPA: 3.94**

SKILLS: **Software Programs:** C++, Python, Java, mySQL, Javascript, React, Node JS, Scala, Play, MATLAB, Swift, Verilog

RELEVANT COURSES: Service Oriented SE, Visual Computing, OpenCV, Computer Security, OS, ML, AI, Data Bases, Data Structures, Algorithms, Scientific Computing, Computer Architecture, Single & Multivariable Calculus, Linear Algebra, Statistic, Differential Equations, Mechanics & Electromagnetic & Modern Physics, Circuit & Signals Analysis, Circuit Controller

EXPERIENCE:

Full Stack Intern, *The Brierley Group, Dallas, TX* Fall 2020 - Present

- Developed platform for engagement with customers through surveys and interactive activities in a web application
- Improved maintainability and reliability of the application by using AWS, microservices, Docker, and Kubernetes
- Reduced modification time by generalized styling for different customers using styled components

Teacher Assistant, *Data Structures, Lyle School of Engineering, Southern Methodist University, Dallas, TX* Spring 2020 - Present

- Ran a weekly lab session explaining data structures and assisting group projects
- Graded coding project assignments as well as exams, quizzes, and homework
- Ran a weekly help desk answering coding related questions in C++, Java and Python

App Developer Intern, *AVBB, Dallas, TX (Remote)* Summer 2020

- Created an iOS app to control a camera tool via Bluetooth and serial communication
- Developed fundamental skills on Swift to fulfill design and functional requirement protocols

Research Assistant, *Ben Gurion University of the Negev, Be'er Sheva, Israel* Summer 2020

- Collaborated with Biomechanical and a CS professors to develop an underwater movement analyzer
- Utilized open source library openpose to locate different body parts
- Created EC2 AWS server with GPU to satisfy requirements of the library and increase performance

Research Assistant, *Lyle School of Engineering, Southern Methodist University, Dallas, TX* Spring-Summer 2019

- Co-authored research paper "Scan Chain Segmentation for Capture Power Reduction for Low Power Decompressed Patterns"
- Improved performance of power reduction detection test by testing in parallel servers
- Collaborated with PhD student to stay aligned on project goals and vision

PROJECTS:

Instagram-Bot Summer 2020

- Created a python script to automate Instagram account doing likes, random comments and follows
- Wrote 800+ lines of code followed by detailed documentation and examples and posted as open source code

J-Box Spring 2020

- Collaborated on a semester long project building a web application connecting journalists and articles buyers
- Connected the database to the client side using Node JS and SQL queries

Search Engine Project Fall 2019

- Programmed a search engine containing 40,000 files of judicial protocol of criminal cases
- Implemented a user interface which loads the file in two different data structures: hash table and AVL tree
- Wrote over 2,000 lines of C++ code, designed a UML diagram and analysis paper regarding data structures performance

Engineering Design Project Spring 2019

- Designated as semester-long project leader to design, build, and program a robot using Arduino
- Installed and configured sensors to measure temperature, incline, and conductivity
- Implemented infra-red and ping sensor readings to enable robust navigation throughout a course
- Wrote and tested 900+ lines of Java code to accomplish assigned tasks