Aidan Jones

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Objective

Adaptive Computer Science graduate finishing with a 3.35 GPA looking for an introductory programming position at a growing tech firm. Looking to apply problem-solving skills and new eyes to business problems.

Profile

- Constructed robust OS level functions such as drivers, process schedulers, and memory allocation
- · Managed large workloads, with teams of 10 people, that required interdependence and trust in colleagues.
- Streamlined User Interface for Flight Scheduler Database Client to allow user to complete tasks in 3 or less mouse clicks.
- Implemented ray tracer using Phong Illumination that includes reflection and refraction.

Education

BACHELOR OF SCIENCE | THE PENNSYLVANIA STATE UNIVERSITY | AUG 2015 – DEC 2019

· Major: Computer Science

· GPA: 3.35/4.0

Career Experience

SEED EXCHANGE IOS APP

- · Account based and user focused design
- · Provides space for user-user interactions to exchange seeds
- · Backend is built upon AWS DynamoDB using Low-level API
- · Joint project with my father who does database design

MAP MOBILE APPLICATION

- · iOS Mobile App for iPhones
- · Utilizes custom pins for buildings across Penn State Main Campus
- · Provides directions between buildings and step by step instructions

MEMORY ALLOCATION

- · Slab allocation algorithm with custom data structures
- · Customized malloc and free functions that use the slab data structure
- · Defends memory in the form of canaries, free count tracking, and type checking

LOW LEVEL CALCULATOR

- · Developed on embedded system with assembly language
- · Takes user input from terminal over serial connection
- Provides Realtime clock using interrupts

RAY TRACER

- · Ray traces backwards shooting rays from the eye position
- · Draws hard-edge shadows for each non-blocked light source
- · Includes reflection and refraction rays for shiny and translucent objects.

FLIGHT SCHEDULER DATABASE INTERFACE

- · Interfaces with Java Derby Databases and employs SQL queries
- · Provides clean UI with multi-tabs to differentiate user options
- · Implements real-time reporting of user actions and query responses

Additional Work History

HOST	PUMPERNICK'S DELI	MAY 2015
LIFEGUARD	PSC INTERNATIONAL	2016 – 2018 (SUMMERS)
LINE WORKER	IMPACT THRIFT	JUNE 2018 – AUGUST 2018

Skills

· Programming Languages: Java, Python, C/C++, C#, OpenGL, SQL, Swift, iOS, GitHub