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ALAN THOMAS

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EDUCATION

University of California, San Diego, La Jolla, California

B.S. Computer Science

GPA: 4.0 (Major), 3.96 (Cumulative)

2015 – 2019

Courses: CSE 100 (Advanced Data Structures – In Progress), CSE 103 (Probability and Statistics – In Progress), CSE 30 (Computer Organization and Systems Programming), CSE 21 (Discrete Math for Computer Science), CSE 12 (rank 2/300), CSE 15L (rank 8/500)

Monta Vista High School, Cupertino, California

2011 – 2015

SKILLS

Languages/Platforms: Java, C, C++, JavaScript, HTML, CSS, SQL, Python, AngularJS, Node.js, jQuery, SAP Fiori, Android, AWS, SAP ABAP

Tools: Eclipse, Vim, Linux, Logstash, Kibana, Elasticsearch, MS Visual Studio, MS SharePoint, MySQL, OracleDB, Android Studio, REST APIs, OData, OOP/OOAD

EXPERIENCE

Lockheed Martin Space Systems, Sunnyvale, California

Jun 2016 – Sept 2016

Software Engineering Intern

- Designed and developed a web interface for Lockheed ERP and an event registration web app using MEAN.
- Successfully rolled out to production and adopted by 8,000+ active users.
- Developed a mobile application to perform real-time data analytics and visualization. Utilizes OData services to facilitate data transfer between SAP HANA(in-memory DB)/ABAP back-end and SAP Fiori front-end.

Technologies: AngularJS, jQuery, Fiori, JavaScript, HTML, CSS, Node.js, Express.js, SQL, ABAP, HANA

UCSD CSE Department, La Jolla, California

Mar 2016 – Present

Data Structures Tutor

- Selected by Prof. Gary Gillespie based on top academic standing to hold lab hours and guide students.
- Assisting students in building data structures (Hash Tables, Linked Lists, Stacks, Trees) using Java, C, and C++.

ECS Financials, White Plains, New York

Jun 2015 – Sept 2015

Software Engineering Intern

ECS specializes in application integration, transaction processing, process optimization and data governance.

- Developed a visual analytics module for the IMS transaction processing and messaging platform.
- Automated and optimized processing of incomprehensible logs into unstructured data to detect patterns and anomalies in data flow.
- Defined the technology stack, architected, and delivered the end to end solution.

Technologies: Java, JSP, JavaScript, HTML, SQL, Kibana, Elasticsearch, Logstash, MySQL

PROJECTS/ORGS

DaysPal Facebook Messenger Chatbot

Sept 2016 – Present

- Developed a Node.js chatbot powered by the Facebook Messenger platform.
- Initial version uses Google APIs and reconciles user and social connection data across calendar events.

Biopico Big Data Analytics

July 2016 – Present

- Developing a distributed event processing system for analyzing terabytes of data streams from high throughput assays.
- Utilizing python libraries and AWS EC2 to analyze and consolidate unstructured data facilitating anomaly and pattern detection.

Underwater Multi-Camera (QX1) Manipulation and Synchronization

Feb 2016 – Present

- Developing the UI to interact with an aquatic robot as a member of **Engineers for Exploration**.
- Utilizes remote imaging to provide vital information about undiscovered terrain.
- Collaborating with a team of engineers, ecologists, archaeologists, and conservationists.

Persona: Your Personal Resume Generator (UCSD Hack Day 2016 1st Place)

Jan 2016 – Jun 2016

Platform that can generate a professional resume in under 2 minutes from basic user information.

- Developed a clean and animated user interface utilizing jQuery, JavaScript, CSS, and HTML.
- Used statistical evidence from professionals to define the optimal style and content.
- Future work involves intelligent integration of similar profiles from LinkedIn etc.