

Duncan P. Grimes

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EDUCATION

VANDERBILT UNIVERSITY

B.S. in Applied Mathematics and Computer Science | Minor in Business

GPA: 3.94 / 4.00 | Dean's List (all 4 semesters)

Nashville, TN

Expected May 2025

RELEVANT COURSEWORK & SKILLS

COURSEWORK: Program Design & Data Structures · Error-Correcting Codes & Cryptography · Discrete Structures
Algorithms · Programming Languages · Digital Systems · Artificial Neural Networks & Deep Learning · AI

TECHNICAL SKILLS: Java · Python · C++ · Spring · JavaScript · React.js · HTML · MATLAB · Git · SQL · Excel

INDUSTRY EXPERIENCE USING: Node.js · Jenkins · Maven · Docker · Argo CD · K8s · GCP · Cucumber BDD

PROFESSIONAL EXPERIENCE

CONNEXITY

Santa Monica, CA

Software Engineer Intern | Taboola

May 2023 – August 2023

- Built a 1-to-many link monetization model for ShopYourLikes.com (SYL), revenue source for 5,500+ influencers
 - Enable influencers to promote 10 products simultaneously by creating a “Collection” of custom generated affiliate links to be shared on socials (previously, SYL influencers could monetize only 1 product at a time)
 - Developed entire “Collections” REST API using Java Spring Boot, created two MySQL tables for data storage
 - Conducted data analytics on the health of the API's 12 endpoints, created Grafana dashboards to visualize data
- Tested services for quality assurance, writing mocked unit tests with Mockito and BDD tests with Cucumber
- Deployed containerized applications using Docker, distributed across Google Kubernetes Engine cloud architecture
- Designed a POC React.js app for “StoreFronts,” a new SYL influencer homepage; presented demo to 50 engineers

MASTRO'S OCEAN CLUB

Malibu, CA

Server's Assistant | Landry's Inc.

May 2022 – August 2022

- Honed customer service skills bussing tables at a fine dining steakhouse by the ocean seating 450 diners per night
- Managed open and close of restaurant; set/clear tables; run bread baskets; make cappuccinos; fill beverages; polish

BEACH CAMP

Santa Monica, CA

Coach | The Beach Club

June 2020 – August 2021

- Refined leadership and multitasking abilities coaching groups of 20 young campers in over a dozen different sports

LEADERSHIP EXPERIENCE

VANDERBILT FUSION PROJECT

Control Systems Engineer

September 2022 – Present

- Collaborate with other undergraduate engineers to design all digital controls for a \$30,000 nuclear fusion reactor
- Transmit pressure data to a computer controlling the reactor's roughing pump, turbo pump, MFC, and gate valve
- Program Arduino and use pumps' native software to halt all systems and open gate valve if pressure rapidly spikes

CODE IGNITE

Volunteer Programming Tutor

August 2022 – Present

- Teach a weekly online Python class for 30 aspiring computer science students from Rose Park middle school
- Guide students through developing individual games using a series of small weekly projects in Replit online IDE
- Instill fundamentals of object oriented programming: data types, conditional logic, loops, functions, and classes

KAPPA SIGMA FRATERNITY

Scholarship Chair

January 2022 – Present

- Organize chapter applications for over \$20,000 in Vanderbilt scholarships awarded to 40 members each semester

VANDERBILT MEN'S CLUB VOLLEYBALL

President | Treasurer | Captain of 2023 DIIAA National Championship Team

August 2021 – Present

- Expand management skills leading a competitive travel team in 7 tournaments annually, coach biweekly practice
- Captained Vanderbilt's first ever NCVF national championship team, sweeping the DIIAA division in 2023 and selected for 1st Team All-Tournament honors (awarded based on votes from all 24 teams in the division)
- Create practice plans; collect dues; organize tournaments and travel; communicate with leaders from other schools

INTERESTS & ACTIVITIES

Interests: Manual cars · Mechanical keyboards · Old mountain bikes · Grilling · Singing · Shark Week · Country music

Activities: Vanderbilt Sports Business Club · Manhattan Beach 6 man · Intramural flag football & wiffleball