David HACKER

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EDUCATION

JUNE 2021 B.S. in COMPUTER SCIENCE

University of California, San Diego

PROFESSIONAL EXPERIENCE

JUNE 2017 - SEPT 2017 | Application Developer at MyGolfFaves

Used React Native to create iOS and Android apps for MyGolfFaves, a golfing discounts

company. Directed production of the backend API.

JULY 2016 – JAN 2017 | Full Stack Developer at BLINKS

Improved the resource demands and efficiency of Blink's Android app. Created a backend to support Blink's iOS sticker subscription service using the MEAN stack, mLab, Amazon

S3 and Cloudfront, and designed a corresponding admin panel.

MAR 2016 - AUG 2016 | Full Stack Developer at INDIEU

Redesigned the website for IndieU, a music streaming service for college students, involving numerous layout changes. Required knowledge of the MEAN stack and familiarity

with Amazon's EC2 platform.

PROJECTS

SUMMER 2017 | Alexa YouTube Skill Node, JS, AWS Lambda, Heroku, FFmpeg

An unpublished skill that lets Amazon Alexa devices play audio from YouTube videos.

SUMMER 2016 | Text Compression Experiments Python

Developed custom compression algorithm combining existing designs: Burrows-Wheeler

transform, move-to-front transform, run-length encoding, Huffman encoding.

Spring 2016 | Photorealistic Rendering Engine Java, Swing

Ray tracer with configurable options for a variety of features: vertex normal interpolation, Phong shading, ray reflection & transmission, balanced k-d tree generation, camera

rotation, and anti-aliasing

HONORS & AWARDS

Aug 2017 Eagle Scout Award

APR 2017 1st Place: Startup Weekend Conejo Valley 2017

MAR 2017 Honorable Mention: SIAM M3 Challenge (top 8% of teams)

SEPT 2016 National Merit Finalist

JAN 2016 3rd Place: MIT Zero Robotics 2015

COMPUTER SKILLS

Languages: Java, Python, JavaScript, C++, HTML, CSS, LATEX

Frameworks: MEAN stack, Flask, Firebase, React Native, Materialize, Bootstrap