# Bikram Nandy

biknandy.com | bikramn123@gmail.com

# **EDUCATION**

# University of California, Santa Barbara (UCSB)

*June 2020* 

Bachelor of Science, Computer Engineering Engineering Dean's Honors 2019-2020

Relevant Coursework: • Data Structures/Algorithms • Computer Networks • Artificial Intelligence/Machine Learning • Object Oriented Design • Computer Architecture • OS • Android Dev • Computer Security • Front-End Dev (HCI)

#### **SKILLS**

- 6 years of programming experience
- <u>Expert</u>: Javascript (React, Node), Java, Python, HTML/CSS/Bootstrap, C/C++, Git, Agile SD, Databases (SQL & NoSQL), PHP
- Familiar: Kotlin, AWS, Ruby, Cypress (JS), MATLAB, FPGAs, Verilog, MIPS Assembly

### **EXPERIENCE**

# **Software Engineering Intern (Full-Stack Developer)** | Praevium Research

Mar. 2019 - Mar. 2020

- Engineered 4 web applications from the ground up for company that designs & fabricates semiconductor lasers
- Utilized Model-View-Controller framework including Javascript, PHP, HTML/CSS, Bootstrap, various APIs, and SQL to design databases and UX/UI for graphical visualization of hardware data
- Developed an application in Python to communicate with field instruments and industrial devices over a network
- Made end-to-end laser design process more efficient by building RESTful APIs in PHP for 2 web applications
- Set clean code standards in code reviews and enhanced site performance by cleaning up inefficient Javascript/PHP

# Software Q.A. Engineer | UCSB Graduate Division

*June 2017 - Dec. 2017* 

 Verified backend software for financial aid distribution for UCSB Graduate Division through rigorous, precise tests using in-house ProSAM software

#### **PROJECTS**

**BestFaceForward** | 2<sup>nd</sup> Place CS Capstone | github.com/biknandy/No-Cap-Stone

Sept. 2019 - May 2020

- Worked with 4 classmates and mentors from LogMeIn to build an online interview platform that helps the inexperienced candidate learn how to improve communication skills
- Developed algorithm to quantify live video/audio/text analysis from Google Vision and IBM Watson APIs in a Node.js backend server during a practice interview session to score a user's engagement
- Implemented and composed entire frontend infrastructure using React JS
- Technologies: React JS, Node.js, Express, AWS DynamoDB, IBM Watson, Google Cloud Vision, and Agile SD

## **BFOM Website** | Design Project | *brothasfom.org*

June 2019

• Single-handedly designed and created visually stunning, mobile-first, and fully responsive website for my BFOM Acappella singing group from scratch using JavaScript, HTML, CSS, and Bootstrap

**Toon Image** | Computer Vision | *github.com/biknandy/CartoonImageStylingPython* 

*June 2019* 

• Formulated Python algorithm to transform an image into its cartoon style using adaptive thresholding, color manipulation, edge detection, and k-means clustering

### **textdit** | SB Hacks | devpost.com/software/texdit

Jan. 2019

- Worked with 2 partners to create a Python-based service that allows users to text a number and reply with a post from reddit instantly to their phone through SMS/MMS without internet using Twilio and Google Cloud Vision APIs
- Personally built text/image recognition to ensure delivery of relevant content to the user

### **CRIB** | SB Hacks | devpost.com/software/crib

Feb. 2017

• Coded JavaScript network infrastructure for an iOS app using the IBM Watson IoT platform on Bluemix to remotely control home appliances, simulated by Intel Edisons, LEDs, LCDs, sensors, and motors