Bikram Nandy

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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**
- *Expert*: Javascript (React, Node, Vue), 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

Junior Software Engineer | Clariondoor ***July 2020 – Present***

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 | ***2nd 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*

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