Ruchit Dhoka

Aspiring Software Engineer

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 ruchitd.github.io/   in linkedin.com/in/ruchit-dhoka

Work Experience

Data Analytics and AI Intern · June 2018 - August 2018
Nevim

- Built the framework for an AI creating by structures and templates and classes and the foundation for the software, allowing for a team of ten people focus on algorithms and testing resulting in better QA overall for final product using C++, Python and Java
- Gained exposure to IT based environments
- Worked with a significant focus on data analytics and building on topics such as facial recognition
- Attained first hand experience regarding how data analytics can help a business thrive
- Researched and contributed towards an AI designed for facial recognition

Web Developer Intern · June 2016 - August 2016
Sindhen App

- Implemented improved Search Engine Optimization which increased web traffic by an average of 2000 visitors per week through utilizing HTML, CSS, JavaScript
- Helped design and build more fluid websites with easier access for visitors
- Oversaw managing coding of websites for the company as well as creating search page assistance
- Created multiple Search Engine Optimizations for web pages to allow for better search indexing and to the company website and relevancy when using a search engine to view company website

Education

B.Sc in Computer Science · 2016 - Present
California State University East Bay

Currently enrolled in a B.Sc in Computer Science with a focus on Software Engineering. Expected Graduation in Spring of 2021

High School Graduate · 2011 - 2016
Jakarta Intercultural School

International Baccalaureate and Advanced Placement Courses

Projects

- **Banking Software built with C++** (2019)
  - Built a banking software utilizing various forms of sorts, lists and stacks that would take inputs for names, balances and interest. Software allows for entries to be stored, retrieved, and edited
- **MIPS Assembly Calculator with GUI** (2018)
  - Created a Calculator using MIPS Assembly with a functioning GUI. Calculator can do basic functions in addition can perform trigonometric functions and use of exponents
- **Jakarta Intercultural School Magazine Website** (2016)
  - Built a website that allowed for issues of the school magazine to be uploaded and accessed by anyone and everyone using HTML, CSS, and Javascript
- **Built IOS App designed to Movie/TV information** (2015)
  - Built an IOS app using Swift that would allow users to search for a TV/Movie of their choice and then display said item with its IMDB data
- **Running Man Java Game** (2014)
  - Made a running man game in which a player uses arrow keys to move a character. Objective is to dodge incoming projectiles. Made by creating sprites and then coding sprites with animations and interactions with the player
- **Obstacle Course Clearing Robot** (2014)
  - Programmed a robot vehicle using C++ to follow a path and react to changes in light sensor to indicates turns and proximity sensor to indicate turn around or find a different path
- **Raspberry Pi Musical Player** (2014)
  - Coded a Raspberry Pi Musical Player that would be able to play songs and ontop of that could play a self coded beat and melody, coding done in Python

Skills

- **Languages**
  - Java • C++ • Python • Go (Go Lang) • Haskell • MIPS Assembly Language
- **Web Development and Mobile**
  - HTML • CSS • Javascript • React • Node.js • Swift • Android Studio (Java) • PHP
- **Other**
  - SQL • Git • Adobe Suite • Microsoft Office Suite • Blender

Languages

- English (Native)
- Hindi (Native)
- Bahasa Indonesia (Fluent)
- French (Fluent)
- German (Conversational)

Courses & Concepts

- Machine Learning
- Discrete Structures
- Data Structures
- Computer Organics
- Artificial Intelligence
- Assembly Language
- Algorithms and Complexity Analysis
- Object Oriented Programming
- Computer Architecture
- Operating Systems
- Programming Language Concepts
- Linear Algebra and Algorithms for Computer Science
- Statistics for Computer Science
- Robotics

Extracurriculars

- **SF Hacks** (2019)
  - Attended the SF Hacks 2019 event and participated in a coding competition where we would work together in teams to solve various coding challenges
- **CSUEB IEEEXtreme** (2018-2019)
  - Participated in a series of coding challenges with a team and against various other teams and schools
- **Jakarta International School Tech Club** (2014-2016)
  - Participated as a member of the school tech club which actively oversaw solutions to tech related problems and worked with local organizations to aid them in expansion in technology related ways. Notable projects include development of catalog software for a local public library

Hobbies

- Cooking
- Working Out
- Building PCs
- Dungeons and Dragons