Bryan Ngo

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Education

University of California, Davis *Davis, CA*

B.S. IN COMPUTER SCIENCE AND ENGINEERING, MINOR IN STATISTICS *Sep 2015 - Exp. Jun 2019*

- Major GPA: 3.5/4.0

Relevant Coursework: Data Structures & Programming, Software Engineering, Algorithm Design, Programming Languages, Cryptocurrency Technologies, Discrete Mathematics, Computer Networks, Computer Architecture, Operating Systems, Computer Vision, Parallel Architectures.

Work Experience

Course Hero *Redwood City, CA*

SOFTWARE ENGINEERING INTERN | FULL STACK DEVELOPMENT USING DOCTRINE, DOCKER, MARIADB, PHP, AND SYMFONY *Jun 2018 - Sep 2018*

- Implemented a cache to reduce page load times for AB test analysis dashboards from over 1 minute to several seconds.
- Created a tool used to reivew thousands of documents on copyright, spam, and content quality.

Genentech *Vacaville, CA*

BIOLOGICS DRUG SUBSTANCE MANUFACTURING IT INTERN | DATA ANALYSIS USING TIBCO SPOTFIRE ANALYTICS AND GRAILS *Jun 2017 - Sep 2017*

- Identified trends in 15+ years of drug manufacturing discrepancy data.
- Regularly met with clients to gather user requirements for a web application to interface with an analytics dashboard.
- Automated data analysis tools in Google Apps Scripts to save 10+ hours a month.

Skillset

Languages (Proficient): C, C++, HTML, CSS, Javscript, Google Apps Script
Platforms & Frameworks: Linux, Apache, MySQL, MariaDB, MongoDB, Express, Angular, Node.js, Symfony, macOS
Useful Tools: Git, LaTeX, Vim, CLI, Spotfire, Jenkins

Projects

TravelBuddy (CalHacks)

SKILLS/TOOLS: PYTHON, JINJA - HTTPS://GITHUB.COM/BRYNGO/TRAVELBUDDY *Oct 2017*

- Used the Google Vision, Google Maps, and Wikipedia API to implement a reverse search application for finding nearby restaurants.
- Users can upload photos of food to learn about the history and where to buy it.

Personal Site Auto-Blogger

SKILLS/TOOLS: MONGO, EXPRESS, ANGULAR, JADE, NODE - HTTPS://GITHUB.COM/BRYNGO/PERSONALSITE *On-going*

- Used Node to create a client-side permission-based blog updater for my personal site.

Content-Aware Image Resizer

SKILLS/TOOLS: MATLAB - SOURCE CODE AVAILABLE UPON REQUEST *May 2018*

- Implemented a dynamic programming version of the content-aware image resizing technique described in Shai Avidan and Ariel Shamir's SIGGRAPH 2007 paper, "Seam Carving for Content-Aware Image Resizing".

Extracurricular Activities

DCSC (Davis Computer Science Club) *Davis, CA*

CORE MEMBER '15 & SECRETARY '16 & TREASURER '17 & PRESIDENT '18 & TUTOR *Sep 2015 - PRESENT*

- Assisted in building a stronger CS community on campus by providing networking and programming events to hundreds of students each year.
- Oversaw opeartions and budgeted over $2,000 for marketing, technology, and external outreach teams.

BCNC (Business Careers and Networking Club) *Davis, CA*

CO-DIRECTOR OF TECHNOLOGY FULL STACK WEB DEVELOPMENT USING MONGO, EXPRESS, ANGULAR, AND NODE *May 2017 - Jun 2018*

- Used Mongo, Express, Angular, and Node to develop an application portal used by 50+ applicants, and an automated website event updater.