


Akshay Guthal


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education

University of Maryland College Park

B.S./M.S., Computer Science

3.7 GPA, Graduating May 2020

Entrepreneurship and Innovation Honors College

QUEST Honors Program

Relevant Coursework: Object Oriented Programming, Discrete Structures, Algorithms, Organization of Programming Languages, Intro to Compilers, Computer & Network Security, Image Processing, Data Structures, Software Engineering, Computer Graphics, Artificial Intelligence

Montgomery Blair High School

Science, Mathematics & CS Magnet Program

skills

Languages: Java, HTML/CSS, JavaScript, PHP, Node.js, SQL, C, C#, OCaml, Ruby, MATLAB/R

Tools: React, AngularJS, Flask, Unix, Cassandra, MongoDB, Cucumber, Spring Boot, Git, Bootstrap, AWS, JIRA, Unity3D, Adobe Photoshop, Adobe After Effects

projects

Northrop Grumman Maintenance Dashboard

React, Python/Flask

A fully functional dashboard for Northrop Grumman Mission Systems to view and schedule preventative maintenance, and display accompanying metrics to help schedule future maintenance. Presented work at the QUEST Capstone symposium.

Check My Vision

React, Node.js/Express, Android, Firebase

An website and accompanying app to determine a user's visual acuity. Awarded 4th place at the Capital One intern hackathon.

Diamondback Salary Guide

HTML, SASS, AngularJS, PHP

A clean, responsive website displaying publicly available salary data for faculty at the University of Maryland.

UMD Pi Sigma Epsilon Website

HTML/CSS, WordPress, PHP

The official website representing the Pi Sigma Epsilon Eta Gamma chapter at the University of Maryland.

OverTime

HTML/CSS, JavaScript, PHP

A venture and prototype web application created for the TerpTank pitch competition that aims to find relevant recruiters for student-athletes to connect with in order to help them find jobs coming out of college.

work experience

Capital One

Summer 2018

Software Engineering Intern

- Worked on the Enrollments team, responsible for enrolling credit card and bank accounts, to improve testing automation of APIs.
- Performed a feasibility study and converted several regression scripts written in **Cucumber** from **Ruby** to **Java**.
- Optimized regression scripts by integrating with the **Karate** framework, reducing lines of code from over 3,500 to 300.
- Eliminated unnecessary data files by consuming internal APIs to dynamically generate card/bank accounts.
- Integrated tests with an internal Capital One testing framework to allow for better CI/CD and push-button deployment.
- Presented work to technical leadership throughout the Consumer Identity department.

NETSCOUT

Summer 2017

Software Engineering Intern

- Designed a full-stack feature with **AngularJS** and **Java** to analyze the system health of an enterprise network analysis product.
- Generated pages that display analytics based on ESXi hosts and virtual machines using the VMware APIs.

Intelligent Automation, Inc.

Summer 2015/16

Software Engineering Intern

- Developed several features for two interactive games in **Unity3D** using **C#** scripts.
- Wrote front-end for two interactive games for 4th and 8th graders in **HTML/CSS** and **JavaScript**.
- Developed a company-wide Timesheet Allocation Utility, pulling data from **SQL** databases.

leadership

The Diamondback Lab

Spring 2016 - Present

Director

- Managed team of developers to maintain The Diamondback website and create innovative content for thousands of daily readers.
- Maintained communication with the newsroom, advertising department, and the Washington Post development team.
- Led total conversion and redesign of website from Washington Post's CMS to WordPress.

QUEST 190H

Fall 2017

Mentor

- Guided a group of undergraduate, interdisciplinary students to produce several professional projects that incorporate aspects of design and quality.

Pi Sigma Epsilon

Spring 2017 - Present

Chair of Technology

- Developed technology solutions, including the official website, to improve the internal activities of a professional business fraternity.