

AEMILE DONOGHUE

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EDUCATION	University of Notre Dame	Notre Dame, IN	Dean's List :	2019, 2018
	Bachelor of Science	January 2020		2017, 2015
	Major: Computer Science	GPA: 3.61 / 4.00		
EXPERIENCE	Boeing Research & Technology, Embedded Software Cyber Security Intern, Saint Louis MO 2019			
	<ul style="list-style-type: none">Created the message validation infrastructure for communications to and from an unmanned aircraft.Developed the message standards to be used for unmanned aircraft communications.Deployed the validation software onto the flight hardware located at the test site in Seattle, WA.			
	Amazon Robotics, Software Development Engineering Intern, Boston MA 2018			
	<ul style="list-style-type: none">Designed and implemented a team-wide internal web application for Amazon Robotics' big data analytics team.Using AWS Aurora Relational Database, Dynamo DB Non-relational Database, Simple Queue Service, as well as Java Spring, and Apache Tomcat, developed the back end of the application.Created a front end using Java Server Pages along with HTML and CSS.			
	Helm UX, Software Development Intern, Buffalo NY 2017			
	<ul style="list-style-type: none">Built <i>Visible</i>, a company-wide internal web application that utilized the Asana API, Google Drive API, Dropbox API, and a MySQL database to create a platform where Helm's clients can easily view the current status, designs, and deliverables of the services that they are being provided.			
PROJECTS	AT&T Hackathon, 3rd Place National Finalist, Winner of Best IOT Solution Locally 2017			
	<ul style="list-style-type: none">Collaborated on team Raise the Bar, a "smart gym" platform that used a TI Sensor Tag to collect and transmit data from a user's workout both to a mobile application created for gym go-ers, and to a web application created for gym managers.Utilized Android Studio to develop the user interface for the app, and helped smooth the data collected from the sensor tags in the application itself.Presented the application at the 2017 AT&T Developer Summit in Las Vegas, NV.			
	Notre Dame Rocketry Team, Programming Lead, Recipients of the Altitude Award 2016-2019			
SKILLS	<ul style="list-style-type: none">Programmed an unmanned aerial vehicle built by the team to fly autonomously and detect a target.Won the Altitude Award at NASA's 2017 Student Launch competition for having the closest apogee in the history of the competition to the target apogee of 1 mile.Hosted educational outreach events to engage local elementary and middle school students in STEM.			
	Programming: C++, C, Python, Javascript, C#, Java, PHP			
	Technologies & Frameworks: Full-Stack Development, MySQL, UNIX/Linux, Git, Unity Game Engine, MATLAB, WebGL, Maya, AWS, Agile Development			
	Courses: Data Structures, Fundamentals of Computing, Theory of Computing, Operating Systems Databases, Web Science & Info Retrieval, Computer Architecture, Embedded Systems, Computer Graphics			
OTHER EXPERIENCE	Currently Taking: Algorithms, Programming Paradigms, VR Development for Cognitive Psychology, 3D Digital Production			
	Office of Undergraduate Admissions, Tour Guide 2016-2019			
	Sara Bea Learning Center, Student Note Taker 2016-2017			
	Society of Women Engineers, STEM Welcome Weekend Ambassador 2016			
INTERESTS	Irish Dancing, Drawing, Painting, Baking, Rock Climbing, Yoga			