Kent Taguba

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Education

B.S.Computer Science	**Univ. of Maryland-Baltimore County**	**Graduated [May 2021]**
M.S.Electrical and Computer Engineering	**Johns Hopkins University**	**Expected [2024]**

Skills

Languages	Python, C++, C, MATLAB
Software/ Frameworks	Atlassian suite, Git, ROS2, Docker, Qt5, Django, Redis, RDBMS, GNURadio, VMware

Relevant Experience

Raytheon BBN, Research Engineer I — **06/2021 - Present**

- Develop an in-house test bed software to facilitate efficient data collection
- Create an automated pipeline to view and analyze radio frequency data
- Design and implement automated on-board drone sensor software
- Develop an application for end-users to view flight paths and automate queries to an open-source data api
- Produce various applications using software-defined radios
- Participate in business development initiatives

Atmospheric LiDAR Group, Lead Software Engineer — **11/2019 - 06/2021**

- Design and lead the development of a microservices architecture given loosely defined customer requirements
- Translate Matlab scripts used for scientific research to production-grade software
- Create tasks and organize team sprints and timeline based on requirements
- Setup basic DevOps tools including deployment with AWS EC2

Lobo Lab, Undergraduate Assistant — **06/2018 - 11/2019**

- Conduct undergraduate research in Computational Biology
- Present at an Undergraduate Research Day

Projects

UCN Portal	Store, display, standardize data from Ceilometer LiDAR data coming from multiple EPA/NASA sites. (**Python, C++, Bash, Matlab**)
DTMF Generator and Receiver	Use Matlab's FilterDesigner to simulate a dual-tone multifrequency generator and receiver **(Matlab)**
NSGA-II: Gene Regulatory Networks	Implement a novel genetic algorithm to generate multiple topologically unique gene regulatory networks that produce a pre-defined phenotype (**C++, Python**)
Lane Detection Computer Vision	Implement a Lane Detection algorithm using Convolutional Neural Networks **(Python)**
Linux Dev Chess	Create a loadable kernel module that implements Chess between two users **(C)**

Publications

Delgado, Ruben, et al. "Multiagency Ceilometer Network for Air Quality and Meteorological Applications." *101st American Meteorological Society Annual Meeting*. AMS, 2021.