

# Tommy Bui Nguyen

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## EDUCATION

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**Drexel University**, Pennoni Honors College  
*Bachelor of Science in Computer Science, Minor in Mathematics*  
GPA: 4.00, Dean's List

Anticipated Graduation: June 2023  
Philadelphia, PA

**Illinois Math and Science Academy**  
GPA: 3.75/4.00

August 2015 - June 2018  
Aurora, IL

## SKILLS

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**Programming Languages:** Python, C#, Java, Bash

**Tools:** Visual Studio, Git, Eclipse, Unity, Amazon Web Services, Linux, Tableau

**Web Development:** HTML, CSS, JavaScript, WordPress

## PROJECT EXPERIENCE

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**Drexel Wireless System Laboratory**, Philadelphia, PA  
*STAR Scholar*

April 2019 - August 2019

- Built and deployed Flask API on Docker to access information from Software Defined Radios
- Designed and developed Augmented Reality Mobile app using Vuforia and Unity to visualize data transmission from Software Defined Radios

**Virtual Pet**, Philadelphia, PA

November 2018

[https://www.cs.drexel.edu/~tbn33/virtual\\_pet.html](https://www.cs.drexel.edu/~tbn33/virtual_pet.html)

- Designed and developed an interactive Virtual Pet using HTML, CSS, and JavaScript
- Uploaded code for the Virtual Pet onto Drexel's CCI Servers to allow for access on any web browser

**Conway's Game of Life**, Philadelphia, PA

October 2018

<https://www.cs.drexel.edu/~tbn33/conwayGameOfLife.html>

- Used HTML and JavaScript to develop a recreation of Conway's Game of Life

**Machine Learning Decision Tree Algorithm**, Aurora, IL

April 2018

*Programmer*

- Implemented artificial intelligence decision tree learning algorithm that determined with 94% accuracy whether a simulated solar system held habitable planets
- Collaborated with peers and consulted academic papers to troubleshoot bugs within the code

## WORK EXPERIENCE

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**Randstad (Vanguard Assignment)**, Malvern, PA

September 2019 - Present

*IT Developer Intern*

- Restructuring big data of over 700,000 entries to be analyzed by a machine learning model to assist with business action
- Developing automated processes by leveraging Blue Prism to process reports, save time, and reduce human error during business function
- Designed and developed automated processes using Blue Prism, Python, and AWS Lambda to save over 50 hours of manual work per month.
- Piloted machine learning use cases at Vanguard using AWS Sagemaker
- Deployed and documented 2 automated processes into production using CI/CD tools (Jira, Bamboo, Bitbucket, CodeCommit, CodeBuild)

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**Drexel University Housing and Residence Life**, Philadelphia, PA September 2019 - Present  
*Resident Assistant*

- Planning and hosting community development events for 38 freshmen in suite-style residence halls
- Coordinating with staff of 15 to manage North and Caneris residence halls while ensuring student safety and wellbeing

**Steinbright Career Development Center**, Philadelphia, PA April 2019 - June 2019  
*Careers Assistant*

- Compiled checklist for students contemplating graduate school to assist in their decisions
- Supported Steinbright staff members with logistics and administrative tasks related to projects

**Starbucks**, Philadelphia, PA January 2019 - April 2019  
*Student Barista*

- Memorized recipes to all Starbuck menu items and crafted drinks in a fast-paced and hectic environment
- Coordinated with fellow baristas to ensure drinks were made as quickly and as efficiently as possible
- Resolved customer issues and provided immediate support for any problems they had

**IMSA Writing Center**, Aurora, IL August 2015 - June 2018  
*Writing Tutor*

- Tutored over 100 unique students to improve clarity, grammar, and argumentation within their writing
- Provided over 200 hours of real-time feedback within the Writing Center to provide urgent revisions to student essays within the fields of literature, history, research papers, resumes, and college essays

## RELEVANT COURSEWORK

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Computational Science  
Intro to Computer Science  
Multivariate Calculus

Object-Oriented Programming  
Comp & Info Design

Computer Programming  
Linear Algebra

## HONORS & AWARDS

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**Students Tackling Advanced Research (STAR) Scholars Program:** (June 2019 - August 2019)

**Dean's List:** (January 2018 – Present)

**Sigma Phi Epsilon Balanced Man Scholarship Finalist:** (October 2018)

**National Kikkoman Scholarship Recipient:** (July 2017 - August 2017)

- Study abroad in Japan

## ACTIVITIES

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**College of Computing and Informatics:** Peer Mentor (September 2019 – Present)

**Society of Asian Scientists Engineers (SASE):** Webmaster (September 2018 – Present)

**Dragon's First:** Alumni and Outreach Chair (September 2018 – September 2020)

- Organization for First-Generation/Low-Income Students at Drexel University