

# DENNIS KRUPITSKY

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**Portfolio:** <https://www.denniskrupitsky.com/>

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## EDUCATION

College of Staten Island (CSI) – **3.94 GPA**

*Bachelor of Science in Computer Science*

Staten Island, New York

*August 2017- Dec 2020*

**Relevant Courses:** Data Structures, Object Oriented Programming, Assembly Language, Operating Systems, Calculus 1-3, Advanced Web Development, Databases, Discrete Math, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Switching and Automation Theory

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## SKILLS

### Languages/Frameworks:

C++, C#, Python, JavaScript,  
Node.js, React.js, Ember.js,  
SQL, Perl, PHP, Go, Swift,

### Tools/Software:

Microsoft Office  
Adobe Suite, Git  
Tableau, Alteryx

### Operating Systems:

macOS, Unix, Linux  
Windows

### Certifications:

iOS Development,  
BMC

HTML, CSS, MATLAB

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## WORK EXPERIENCE

### SOFTWARE ENGINEERING INTERN, UBS

Weehawken, NJ - *July – August 2020*

- Member of Group Chief Technology Office – Core Engineering team whose goal is to deliver engineering tech to “transform the bank” – Big Bet 1 & 2
- Contributed to the UBSCTL codebase (**Go**), which aims to allow developers to go from app creation to deployment only using this command line interface
- Participated in the UBS Intern Challenge by delivering a pitch and demo (**ReactJS**) in collaboration with other interns for a platform to manage the return of employees to the office post COVID-19 quarantine

### COMPUTER SCIENCE LAB TUTOR, CSI

Staten Island, NY - *October – December 2019*

- Successfully analyzed and debugged code (**C++**) written by students to help solve problems
- Assisted students in understanding the fundamentals of programming

### SOFTWARE ENGINEERING INTERN, UBS

Weehawken, NJ - *June – August 2019*

- Developed scripts utilizing **Perl** and **SQL** languages that automated report generation of trade data from the Martini repo trading application
- Applied SonarQube static code analyzer to the Martini application codebase for review of existing vulnerabilities and bugs in order to improve technical integrity
- Winner of 2019 UBS Intern Challenge – Created a pitch for possible future integration of existing legacy systems at UBS with Microsoft Azure services in collaboration with other Group Technology interns

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## SELECTED PROJECTS

### COVID-19-TRACKER (React.js & Express.js)

2020

- Full Stack Application using **React.js**, **Express.js** and **Google Firebase**, utilizing several APIs including Twilio, NumVerify and COVID-19 Statistics.
- ReactJS powered front-end application using MaterialUI and Charts.js to display various statistics regarding COVID-19 hosted on AWS Amplify
- Paired the webpage to an Express.JS powered back-end hosted on Heroku for allowing users to register for daily text messages with statistics

### IMAGE CLASSIFICATION RESEARCH PROJECT (Python)

2019

- Proposed and developed topologies for image recognition based on convolutional neural networks, along with building the learning strategies for these topologies.
- Evaluated the accuracy of classification (detection) results by using different approaches such as batch training, different activation and loss functions, augmentation, normalization, stand pooling and dropout.
- Performed experiments with medium and large size datasets, to plot and analyze the experimental results and make recommendations related to different applications and architectures.

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## AWARDS

- Dean's List at the College of Staten Island (2018-2020)
- National Grid Scholarship for outstanding Academics (2018)

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## INTERESTS & ACTIVITIES

- Lacrosse, Baseball, Basketball, Football, Snowboarding
- Proficient in Russian Language
- UBS Hackathon 2019
- CSI Computer Science Club