**DENNIS KRUPITSKY**

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

**EDUCATION**

College of Staten Island (CSI) – **3.94 GPA** Staten Island, New York

*Bachelor of Science in Computer Science August 2017- Dec 2020*

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

**SKILLS**

**Languages/Frameworks**: **Tools/Software:** **Operating Systems: Certifications:**

C++, C#, Python, JavaScript, Microsoft Office macOS, Unix, Linux iOS Development,

Node.js, React.js, Ember.js, Adobe Suite, Git Windows BMC

SQL, Perl, PHP, Go, Swift, Tableau, Alteryx

HTML, CSS, MATLAB

**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 bugs and vulnerabilities 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

**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.

**AWARDS**

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

**INTERESTS & ACTIVITIES**

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