# DENNIS KRUPITSKY

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## TECHNICAL SKILLS
**Languages/Frameworks:** Python, Go, C++, C#, JavaScript, React.js, Ember.js, Node.js, Swift, SQL, Perl, PHP, MATLAB
**Tools/Software:** Docker, MySQL, PostgreSQL, NoSQL, Git, Alteryx, Tableau, Microsoft Office
**Operating Systems:** Windows, Linux, Darwin, Unix
**Certifications:** iOS Development, BMC

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## WORK EXPERIENCE
**GCTO CORE ENGINEERING GTP, UBS**                         Weehawken, NJ – *August 2020 – Present*
- Worked on integration and development for Grafeas (an open-source artifact metadata API) with UBSCTL (an advanced CLI tool development tool)
- Developed CI pipeline for creation of new applications within Gitlab based on information from internal app directory

**GCTO CORE ENGINEERING INTERN, UBS**                         Weehawken, NJ - *July – August 2020*
- The teams' objectives are to transform software development and delivery across the whole of UBS technology, by leveraging next generation industry tooling and developing bespoke products (e.g. UBSCTL)
- Apart of the UBSCTL development team – this tool is written in **Go** and is an advanced CLI tool for development teams to move an application from an inception phase, right across to deployment
- UBS Intern challenge: creating a POC system to aid UBS's strategy of slowly returning employees back to the office (written in **ReactJS**)

**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

**IB TECH GALM INTERN, UBS**                         Weehawken, NJ - *June – August 2019*
- Developed **Perl** and **SQL** scripts 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 (**C#**)

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## SELECTED PROJECTS
**COVID-19-TRACKER (React.js & Node.js)**                         *2020*
- Full Stack Application using **React.js**, **Node.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 a Node.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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## EDUCATION
College of Staten Island (CSI) – **3.94 GPA**                         New York
*Bachelor of Science in Computer Science*                         *August 2017- Dec 2020*

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## 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
- CSI Computer Science Club