Saem Jeon

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Education

Drexel University (BS/MS Accelerated Degree Program)   *Philadelphia, PA*

B.S. in Electrical and Computer Engineering   *Expected Graduation: June 2022*

M.S. in Computer Science   *Cumulative GPA: 4.0 (Dean's List)*

Minors in Finance and Business Administration

Work Experience

Amazon Web Services (AWS)   *Remote*

Software Development Engineer Intern   *June 2021 - Present*
- Design and apply data models to provide a secure CI/CD tool for internal EC2 Nitro based teams
- Update DynamoDB table schemas to uniquely identify packages deployed to the EC2 Nitro servers
- Enhance the security by improving the signing process preventing uncertified software from deploying

Bentley Systems   *Remote*

Software Engineering Intern   *April 2021 - June 2021*
- Generated several REST API endpoints delivering information about various services utilizing Azure Functions and TypeScript
- Created a dashboard for developers to easily check versions of commonly used packages across different services
- Reduced the usage of resources to run unnecessary builds by invalidating builds under certain criteria
- Maintained webpack tools used for the open source project, iModel.js

iPipeline   *Philadelphia, PA*

.NET Developer Co-op   *April 2019 - August 2020*
- Developed .NET SaaS products to automate application process for the life insurance companies
- Expanded XSLT configurations to transform customer data into XML documents
- Captured signatures from key parties and mapped them to the application forms
- Addressed customer issues related to the products

Drexel College of Computing & Informatics   *Philadelphia, PA*

Teaching Assistant   *September 2018 - June 2020*
- Performed one-on-one or small group academic tutoring to students who have difficulty with course materials
- Graded and provided feedback on students' assignments to improve programming technique and efficiency
- Facilitated in lab activities and gave guidance to students

Projects & Hackathon

Auto-Cropped Panorama Image Stitching   *Philadelphia, PA*

Skills used: OpenCV, Python   *April 2020 - June 2020*
- Constructed an auto-cropped image stitching tool that removes black pixels resulted from a normal panoramic image
- Used OpenCV library to build an image stitcher
- Modified a well-known algorithm which finds maximum rectangular area to find the largest resulting image while removing all the black pixels

Collect Your K-Pop   *Philadelphia, PA*

Skills used: HTML, CSS, Bootstrap, Flask, Python, SQLite, jQuery   *January 2020 - March 2020*
- Implemented a web platform where KPop fans can trade goods collections of their favorite KPop artists
- Employed HTML, CSS, and Bootstrap to build a front-end and Flask and SQLite to structure and communicate with a database
- Introduced an order confirmation system to ensure trust in e-commerce

Elderly Vibrations   *Philadelphia, PA*

Organizer's Choice & Best Hack that Promotes Accessibility | DragonHacks   *April 2019*
- Utilized Internet of Things (IoT), open source hardware, and API to make the world more accessible for elderly blind people
- Combined Arduino Uno and ESP 32 to connect hardware and software components through Bluetooth
- Created an Android GUI to sense obstacles in space and send signals to vibrate motors

Skills

Programming	Python, MATLAB, JavaScript, TypeScript, .NET, LaTeX, VHDL, CSS, HTML, Java, jQuery, Flask, Arduino, SQL, C, Kotlin
Software	Visual Studio, Tableau, Fusion 360, JIRA, Vivado
Operating Systems	Windows, Linux, macOS