

Benjamin J. Kulis

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Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science & Linguistics; Dean's List; Cru

May 2022

GPA: 3.86/4.0

Work Experience

Olive

Remote

Associate Software Engineer

June 2022 - February 2023

- Developed a VS Code extension independently using TypeScript, HTML, CSS, and JavaScript (on Node.js) to streamline internal processes, increasing team productivity
- Reduced the production code base by over 50% (~70k lines of code) through efficient refactoring, improving software maintainability
- Implemented bug fixes for production code in C# on ASP.NET, ensuring timely product delivery and customer satisfaction
- Monitored Azure and database performance for successful product deployment to new customers
- Authored technical documentation to facilitate interdepartmental knowledge sharing and contributed to developing comprehensive developer documentation

Koya DocuTracker

Chicago, IL

Software Development Intern

May 2021 - December 2021

- Implemented new features as REST API endpoints in C# with ASP.NET and Entity Framework
- Integrated queries to retrieve data from various tables in relational databases via LINQ and SQL
- Replaced dated Hangfire technology with Azure functions triggered by a service bus
- Collaborated with the frontend team to better suit new features for a smooth user experience

BCI Acrylic

Libertyville, IL

Call Center Representative

June 2020 - August 2020

- Determined the best local dealer based on various factors, including location and product of interest
- Educated customer leads on custom-made acrylic bathtubs, showers, and walk-in tubs
- Warm-transferred and set appointments for free estimates for potential customers
- Awarded as top representative for the month of July with a record of 548 set appointments/transfers

Projects

Bigram Model Language Identifier

Spring 2021

- Implemented a letter bigram model and two word bigram models that predict the language of input sentences
- Used pure Python functions to implement NLP techniques that would train and test the bigram models
- Applied Laplace and Good-Turing smoothing algorithms to improve the prediction accuracy of the models

Music Visualizer

Spring 2020

- Implemented KissFFT and Cinder libraries for FFT audio analysis and graphics in C++, respectively
- Created an interactive visualizer that displays user-interactive time and frequency graphs of a sine wave
- Added functionality for the visualizer to display audio playing from a local file

DataView

Fall 2019

- Developed a real-time data platform that displays the recent information and sales statistics about cars
- Separated data tables into different trends based off brand and sector with pandas
- Created live data tables and graphs with D3.js to merge with the development of a website

Skills

Software: (proficient) C#, Python, Java, C++, SQL

(familiar) TypeScript, JavaScript, HTML, CSS, MongoDB, Neo4j, C, Haskell, MIPS Assembly, Verilog

Technology: (Python) NumPy, pandas, scikit-learn, Matplotlib, Plotly

(JavaScript) Node.js, D3.js, jQuery

(Other) Azure, ASP.NET, .NET, LINQ, Entity Framework