DAVID J. MURPHY

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ACHIEVEMENTS

* **Zahn Innovation Center Venture Competition,** **1st place winner** of the $25,000 grand prize under Zahn Innovation’s Technology Track for the development and deployment of an iOS application. People’s Choice Award– nominated for best software, $1000 prize.
* **Johnson & Johnson Digital Beauty QuickFire Challenge,** **Top 5 Finalist**. An international tech challenge sponsored by Johnson & Johnson Innovation, JLABS, and Johnson & Johnson Consumer Inc.
* **MassChallenge Accelerator Challenge – Boston,** **Round 2 Finalist.** Invited to pitch Skinno’s mobile computer vision technology.

RELATED JOB EXPERIENCE

**(F/T)** **Database Administrator – Molloy University** [JAN ’22 – **PRESENT]**

* Inherit/merge all responsibilities from the former Lead Applications Developer role with the former Database Administrator role.
* **Migrate Jenzabar Student Information Systems (SIS)** and **upgrade its Internet Campus Solution (JICS-CRM)** in a Microsoft Azure environment. Manage the migration of integral SQL servers & services.

**(F/T) Lead Applications Developer – Molloy University** [FEB ’21 – JAN ‘22]

* Responsible for the design, development, documentation, deployment, implementation, training, and ongoing support of software services.
* **Design, develop (full-stack), deploy & implement** **Scholarship Customer Relationship Management** (**Collaborative** **CRM**) software in collaboration with several teams and departments. Setup several layers of authorization integration points and channel management pipelines to organize & centralize interdepartmental and student-admin communication.
* **Design, develop (full-stack), deploy & implement** **a COVID-19 questionnaire** **web and mobile (React Native) applications**. Sequester sensitive student information in compliance with current HIPPA, FERPA requirements.

**(F/T) Applications Developer/Implementation Specialist – Molloy University** [JUNE ‘18 – FEB ‘21]

* **Design, develop (full-stack), deploy & implement** an **intranet** **Data Dashboard SAAS** that improves organizational effectiveness of the university by automating query and plot creation for vital statistical information.
  + Significantly reduce inbound Institutional Research data request congestion by implementing an interactive GUI service.
  + Drastically increase query accuracy by automating the cartesian product of requested fields.
  + Secure vital database information by developing a PHP-based API that screens for potential SQL injections with modern user input validation techniques. Integrate user authentication with restricted role access via LDAP services.
* **Design, develop (full-stack), deploy & implement** **a job-listing web service** that utilizes server-side libraries to automatically parse & format .docx job templates into finished job listings.
  + Increase job listing turnaround time – from manual entry & formatting to automatic generation – while normalizing listing format for professional consistency.

**(P/T) Board-Certified Robotics Advisor – George W. Hewlett High School**   [SEPT ‘17 – MAR ‘21]

* Teach hardware and software concepts via hands-on training (object-oriented, data structures), Eclipse, and Android Studio to three teams of over fifty high school students.
* All teams advanced to the Long Island FIRST Regionals (Spring ’18); thereafter, one advanced to the North-Eastern Super Regionals.

**(F/T) Co-Founder & Chief Technology Officer – Skinno Inc.** [NOV ‘17 – JUNE ‘18]

* As Co-Founder & CTO of Skinno Inc, successfully pitched the company’s machine learning technology to investors (*Howard Morgan, Sandford Wollman, Noel Goddard, Chuck Pettid, Kimberly Yarnell...*)
* **Developed all aspects of Skinno's multi-platform service, including a web and mobile application for iOS devices**. Monitor technology trends – especially those related to machine learning and UI/UX – to improve the company’s technology, marketing efficacy, and audience retention & acquisition.
* Coordinated with UI/UX designer to develop (full-stack) and publish Skinno’s open beta iOS mobile app onto the App Store (May 2018).
* Technology: Skinno utilizes both client-side (Google Vision OCR) and server-side machine learning via optical character recognition (OCR) to scan skincare product labels and instantly translate esoteric ingredients in real-time.

o Collect, manage, and maintain user data on NoSQL Databases (Google’s Firestore).

* Scrape and store over 60,000 skincare ingredients and their functions in skincare products, and over 100,000 skincare products.
* Track Retention and Engagement via Google’s Firebase Dashboard to predict

o Create and manage a Firebase User Authentication database; implement a secondary pipeline for Gmail & Facebook OAuth to manage authentication and automatically generate first-time user profiles through social media profiles (with consent).

**(P/T) Technology Specialist – Molloy College** [NOV ‘17 – JUNE ‘18]

**(P/T) Teacher’s Assistant | Web Scripting – Molloy College** [SEPT ’17 – MAY ‘18]

**(P/T) Undergraduate Computer Science Tutor – AcE Services – Molloy College** [SEPT ’17 – MAY ‘18]

LANGUAGES, SERVICES, & ABILITIES

* ***Expert:*** JS ES5/ES6/ES7 | React | Node.js/Express | MySQL | MsSQL | MongoDB | Mongoose | Microsoft IIS | npm | Git/Github | HTML5 | CSS3/SCSS | CRUD | REST | OOP | MVC
* ***Proficient:*** Swift | Xcode | Android Studio | React Native | OCR
* ***Prior Experience*:** jQuery | C++ | Java | PHP | R | Google Firebase | Google Firestore | AWS EC2 | Heroku

EDUCATION INFORMATION

Bachelor of Arts in Molloy University – Rockville Centre, NY

Computer Science **GPA: 3.49** | **Dean’s List – 2 semesters**

Bachelor of Arts in English State University of New York College at Geneseo

Minor in Biology **GPA: 3.46** | **Dean’s List – 3 semesters**