DAVID J. MURPHY

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EDUCATION INFORMATION

Bachelor of Arts in   Molloy College – Rockville Centre, NY   FALL 2012 – MAY 2018
Computer Science   **GPA: 3.49** | **Dean's List:** Spring 2013, Fall 2017

Bachelor of Arts in English   State University of New York College at Geneseo   FALL 2014 - MAY 2017
Minor in Biology   **GPA: 3.46** | **Dean's List:** Spring 2016, Fall 2016, Spring 2017

RELATED JOB EXPERIENCE

(F/T) Applications Developer/Implementation Specialist – Molloy College   JUNE '18 – PRESENT
- o Design, develop (full-stack), and implement an intranet Data Dashboard web-service that automates query creation and execution for college administrators.
  - Develop a PHP-based API for client-database communications; screen POST requests for potential SQL injections with modern user input validation techniques. Integrate user authentication with restricted role access via LDAP services.
  - Introduce the Data Dashboard to relevant administration to improve/enhance administrative processes; to reduce data request congestion between Institutional Effectiveness and other departments.
- o Design, develop, job-posting generator via a web service for Human Resources administrators.

(P/T) Board-Certified Robotics Advisor – George W. Hewlett High School   SEPTEMBER '17 – PRESENT
- o Teach basic programming (object-oriented, data structures) and hardware concepts via Eclipse and Android Studio to three teams of over fifty high school students for national-level FIRST Robotics competitions.
- o All three teams advanced to the FIRST Robotics Regionals; thereafter, one team advanced to the FIRST Robotics North-Eastern Super Regionals.

(F/T) Co-Founder & Chief Technology Officer – Skinno Inc.   NOVEMBER '17 – JUNE '18
- o Develop (full-stack) and publish Skinno's beta iOS mobile app onto the App Store (Released in May 2018). Skinno utilizes machine learning via optical character recognition to scan skincare product labels and to instantly translate their esoteric ingredients in real-time. The app's priority is to better inform customers of their skincare products, and to help determine how effective a product is for treating their particular skin.
- o Pitch the beta to investors at startup incubators in NYC and Boston. Participated in and won multiple startup competitions:
  - Nestlé Skin Health SHIELD Hackathon, 1_{st} place winner (Sponsored in-part by the CCNY Zahn Innovation Center).
  - Johnson & Johnson Digital Beauty QuickFire Challenge, Top 5 Finalist. An International tech challenge sponsored by Johnson & Johnson Innovation, JLABS (JLABS) and Johnson & Johnson Consumer Inc.
  - Zahn Innovation Center 2018 Venture Competition, 1_{st} place winner for a $35,000 grand prize total under the Zahn Technology Track. Participated in the startup incubator competition. Attended weekly mentor meetings, business development workshops, and networked with talented software engineers in the 2018 Cohort.
- o Collect, manage, and maintain user data on NoSQL Databases (Google's Firestore). Track Retention and Engagement via Google's Firebase Dashboard to better understand and predict user growth, engagement, and retention.
- o Scrape over 60,000 skincare ingredients and their functions in skincare products, and over 100,000 skincare products.
- o Integrate Google's most recent onboard Mobile Vision iOS technology. Integrate Amazon referral links to generate revenue via a B-to-B business model.
- o Create and manage a Firebase User Authentication database; implement a secondary pipeline for Gmail & Facebook OAuth to manage authentication and to acquire/store personal user information (with consent) for profile creation.

(P/T) Technology Specialist – Molloy College   NOVEMBER '17 – JUNE '18
- o Monitor, manually re-image, and connect several computer labs onto both the student and faculty DNS. Assign admin and user privileges respectively.
- o Working Experience with switch panels and patch panels in a professional environment.

(P/T) Teacher's Assistant | Web Scripting – Molloy College   SEPTEMBER '17 – MAY '18

(P/T) Undergraduate Computer Science Tutor – AcE Services – Molloy College   SEPTEMBER '17 – MAY '18

PROGRAMMING LANGUAGE/SERVICES EXPERIENCE

- HTML5, CSS3, JAVASCRIPT ES5/ES6/ES7, JQUERY, JSON, Bootstrap | Git, npm   Fall '16 – Present [> 3 YEARS]
  - o MERN stack (MongoDB, Express, React, Node.js) [November '18 – Present].
  - o Bootstrap [Fall '17 – Present]
  - o React-Bootstrap, Material-UI [Fall '18 – Present]
- C++   Fall '12 – Spring '14 [> 2 YEARS]
  - o My initial programming language to learn introductory and intermediate concepts in Computer Science, which include: Object-Oriented Programming, Recursion, Dynamic Programming, Linked Lists, Queues, Stacks, Key Hashing, MVC Architecture, Big O Complexity/Notation, Graph Theory, Hamilton & Euler Circuits, Dijkstra's algorithm, etc.
- JAVA / ANDROID STUDIO   Summer '17 – Present [~ 1.5 YEARS]
  - o Robotics Programming Co-Advisor – Eclipse & Android Studio [Fall'17 – Present].
  - o Several trivial Android Studio apps to explore basic and intermediate mobile programming concepts (inspired by several online lecture series) [Summer '17].
- Swift, NoSQL - Google Firestore, MongoDB, DynamoDB   Fall '17 – Summer '18 [> 6 MONTHS]
- PHP, SQL, MySQL, Microsoft IIS, ODBC   Summer '18 – Present [> 6 MONTHS]
- R / R STUDIOS   Fall '16 – Spring '17 [> 6 MONTHS]
  - o Directed Undergraduate Research - SUNY Geneseo: Utilized transect data from a grant-funded study to parameterize a transition matrix model that predicts SUNY Geneseo's arboretum's future tree composition (secondary succession).