

# DAVID J. MURPHY

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## EDUCATION INFORMATION

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

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

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## ACHIEVEMENTS

- ❖ Zahn Innovation Center 2018 Venture Competition, 1<sup>st</sup> place winner of the \$25,000 grand prize under Zahn Innovation's Technology Track. **People's Choice Award** – nominated for best software, \$1000 prize. As Co-Founder & CTO of Skinno Inc, successfully pitched the company's machine learning technology to investors (*Howard Morgan, Sanford Wollman, Noel Goddard, Chuck Pettid, Kimberly Yarnell...*)
- ❖ Johnson & Johnson Digital Beauty 2018 QuickFire Challenge, Top 5 Finalist. An international tech challenge sponsored by Johnson & Johnson Innovation, JLABS, and Johnson & Johnson Consumer Inc.
- ❖ MassChallenge Accelerator 2018 Challenge – Boston, Round 2 Finalist. Invited to pitch Skinno's mobile computer vision technology.

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## RELATED JOB EXPERIENCE

(F/T) Applications Developer/Implementation Specialist – Molloy College      JUNE '18 – **PRESENT**  
➤ Design, develop (full-stack), deploy, and implement software applications that improve administrative and academic processes, and the organizational effectiveness of the College.

- Develop (full-stack) an intranet Data Dashboard web-service that transposes user input into both SQL and MySQL queries and displays their results in-browser in both tabular and graphical formats.
  - Designed to reduce inbound Institutional Research data request traffic by making multivariable data analysis accessible
  - Secure vital database information by designing a PHP API that utilizes modern validation functions (PDO) to screen POST requests for potential SQL injections. Implement user authentication with restricted role access via LDAP services.
  - Conduct meetings and training sessions with college administration/leadership to implement the application.
- Develop (full-stack) a job-listing web service that utilizes server-side libraries to automatically parse .docx job templates into publishable job listings. Designed to normalize all listing formats and thereby to promote professional consistency.

(P/T) Board-Certified Robotics Advisor – George W. Hewlett High School      SEPTEMBER '17 – **PRESENT**  
➤ Teach hardware concepts via hands-on training and software concepts (object-oriented, data structures) via Eclipse and Android Studio to three teams of over fifty high school students for FIRST Robotics competitions.

- All teams advanced to the Long Island FIRST Regionals Spring '18; one team advanced to the North-Eastern Super Regionals.

(F/T) Co-Founder & Chief Technology Officer – Skinno Inc.      NOVEMBER '17 – JUNE '18

- Developed (full-stack) all aspects of Skinno's landing page and mobile iOS application; deployed onto the App Store (May 2018 release).
  - Skinno utilizes client-side machine learning via optical character recognition (OCR) to scan skincare product labels and instantly translate their esoteric ingredients in real-time.
- Participate in weekly business development workshops with professional mentors as a member of the Zahn Innovation Startup Incubator.
- As CTO, communicated the company's technology to company members, investors, and Zahn Innovation professionals. Monitored new iOS technology releases, which rewarded significant improvements to the OCR's efficacy, throughput, and turnaround time (from server-side OCR to client-side) just weeks prior to the major ZAHN innovation pitch.
- Design and implement NoSQL Database architecture (Google's Firestore) to collect, manage, and maintain user and company data.
  - Scrape and store (automation via headless browsers) over 60,000 skincare ingredients and ingredient functions, and over 100,000 skincare products from popular vendor sites.
  - Track Retention and Engagement via Google's Firebase Dashboard to better understand and predict user growth, engagement, and retention.
- Create and manage a Firebase User Authentication database; implement Gmail & Facebook OAuth to manage authentication, and to automatically generate first-time user profiles through their social media profile (with consent).

(P/T) Technology Specialist – Molloy College      NOVEMBER '17 – JUNE '18

(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

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## PROGRAMMING LANGUAGES, SERVICES, & ABILITIES

- HTML5 | CSS3 | JavaScript ES5/ES6/ES7 | jQuery | Git & Github | OOP      > 3 YEARS
  - C++ | Java | Android Studio | Bootstrap | JSON      > 2 YEARS
  - Swift & Xcode | CRUD | REST | SQL | MySQL | NoSQL – Google Firestore, MongoDB | PHP | Node.js | npm | React | Material UI      < 2 YEARS
- | Microsoft IIS | ODBC | R | Google Firebase | SASS
- Stack: jQuery, Bootstrap, HTML, CSS, JS, PHP, SQL, MySQL, and IIS
  - MERN Stack: MongoDB, React, Material UI, JSX, JSS, Node.js