# Hanming (Albert) Yang

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## EDUCATION

**Middlebury College**                                                                                                    **Middlebury, VT**
*BA in Computer Science, Cumulative GPA:* **3.94/4.00**, *Major GPA:* **4.00/4.00**                          *Class of 2023*

- Relevant Coursework: **Algorithms & Complexity, Data Structures,** Computer Architecture, Multivariable Calculus, Linear Algebra, Theory of Computation, Discrete Math, Systems Programming (Registered), Computer Graphics (Registered)

## SKILLS

- Programming Languages: Python, Java, HTML/CSS, JavaScript, Dart, Swift, SQL, MATLAB, C, PHP
- Libraries and Technologies: React, Vue, Express, Flask, Spring, NodeJS, Redis, MySQL, MongoDB, Pandas, OpenCV
- Languages: Native fluency in English and Chinese, Proficient with Wu dialects of Mandarin

## INDUSTRY EXPERIENCE

**ArcSoft**                                                                                                                  **Shanghai, China**
*Software Engineering Intern* **[HTML/CSS, React, Flask, Spring Boot, MySQL]**                        *June 2021 – Aug 2021*

- Delivered a Flask and React demo of a face filter algorithm for a 1.5 million USD deal; coached the sales team regarding demonstration procedures and application functionalities
- Contributed to the full-stack development of the internal meeting-scheduling feature in *ArcSoft Daily Operation Center*; singlehandedly engineered the scheduling interface (React & Spring Boot) and database (MySQL)

**Hellobike**                                                                                                                **Shanghai, China**
*Software Engineering Intern* **[Spring Boot, Redis, MySQL]**                                                *Dec 2020 – Jan 2021*

- Developed back-end on 2 iterations of a new groupon-based grocery delivery service (*HuiShengHuo*) of Hellobike, a company with 200 million+ users
- Fine-tuned the application's discount algorithm; implemented discount logic by creating a point system where users can preform actions to collect a spendable currency

**Camvi Technologies**                                                                                                       **Boston, MA**
*Software Engineering Intern* **[OpenCV, PyGTK]**                                                            *June 2020 – Aug 2020*

- Participated in the training of an AI facial recognition system to secure a 1 million USD deal; increased recognition accuracy from 46% to 92% by creating a Python program that increased the efficiency of manual error detection
- Engineered a PyGTK user interface that allowed clients to interact with recognition results

**Volpe**                                                                                                             **London, UK (Remote)**
*Front End Developer* **[HTML/CSS, Editor X]**                                                                *Mar 2020 – May 2021*

- Developed websites *drinkwithsasha* and *veryvolpe*; maintained daily communication with product and design teams while reporting directly to the CEO; participated in the creation of company logos and website images

## RESEARCH EXPERIENCE

**Jiaotong University Bioengineering Lab, Professor Yifei Yao**                                          **Shanghai, China**
*Research Assistant* **[TensorFlow, Keras, NumPy, Pillow, Matplotlib, Pandas, MATLAB]**          *May 2021 – June 2021*

- Implemented Machine Learning algorithms (U-Net, K-Nearest Neighbors) for the segmentation and reconstruction of ultrasound videos; increased AUC for diagnosing Carpal Tunnel Syndrome (CTS) from 0.28 to 0.69
- Developed NLP algorithm that scans academic databases to output the popularity of CTS related research topics

## TECHNICAL PROJECTS

**MiddConfessions**                                                                                                         **Middlebury, VT**
*Founding Club Member* **[MongoDB, Express, React, NodeJS]**                                              *Apr 2021 – Present*

- Independently developed *MiddConfessions*, a web app with 200+ posts and 30+ daily active users

**Next Round Gifts**                                                                                            **Middlebury, VT (Remote)**
*iOS developer* **[Swift, Xcode]**                                                                          *Mar 2021 – June 2021*

- Pushed two updates of the digital payment application *Next Round Gifts*; configured event tracking pixels for Facebook advertisement, developed a tutorial for first time users, and setup notification system for update reminders

**Offers Ranked**                                                                                                           **Shanghai, China**
*Founder and front-end developer* **[Vue, Flask, MySQL]**                                                    *May 2019 – Present*

- Created web application (WeChat Mini program *Offers✓* ) in Vue, Flask, and MySQL that displays educational statistics of Shanghai; pitched app to potential users at public events in Shanghai, Beijing, and Shenzhen cumulating 50,000+ users