

# Owen Fang

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## EDUCATION

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**Virginia Polytechnic Institute and State University** | Blacksburg, VA

*Bachelor of Science in Computer Science and Mathematics*

- Relevant Coursework: Discrete Mathematics, Data Structures and Algorithms, Differential Equations

**Chantilly High School** | Chantilly, VA

*Advanced Studies Diploma*

- Relevant Coursework: Multivariable Calculus, Linear Algebra, AP Computer Science, Algorithms

## EXPERIENCE

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**Computer Science Honor Society** – Chantilly, VA

**January 2022 – July 2025**

*Computer Science Tutor and Mentor*

- Tutored key concepts and fundamentals of the Java and Python languages through presentations or 1-on-1 work
- Developed comprehensive review materials, including practice exams, for 60+ AP Computer Science A students.
- Guided students through debugging complex coding labs and projects, improving their problem-solving skills.
- Created thorough presentations for Advanced Data Structures and Algorithms for 20+ students every month

**YiFang Taiwan Fruit Tea**- Fairfax, VA

**May 2024 - August 2024**

*Bobarista*

- Managed the preparation of all drink orders, ensuring accuracy and efficiency while handling customer modifications.
- Successfully managed multiple tasks in a fast-paced environment, consistently exceeding performance goals
- Oversee the customer experience to meet and exceed customer needs, and foster lasting relationships with regulars
- Provided informative and engaging explanations of store offerings and Taiwanese Tea culture, enhancing customer knowledge and appreciation.

**10Pearls** - Vienna, VA

**May 2025 - June 2025**

*Accounting and Payroll Shadow*

- Assisted with payroll data verification for two pay periods, supporting accurate processing for 200+ employees
- Reviewed compliance procedures and identified discrepancies, helping reduce potential errors in reporting.

## PROJECTS

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**Swift App - Group Event Planner** | SwiftUI, Firebase

- Integrated Firebase Firestore for real-time data storage and group-based availability syncing
- Implemented the MVVM architecture pattern, resulting in improved maintainability
- Designed a user-friendly and responsive UI using SwiftUI components, including custom date pickers
- Handled asynchronous Firestore reads/writes with error handling and state updates

**Fantasy Football Web Scraper** | Python, BeautifulSoup, Requests, Pandas, SQLite

- Developed a Python web scraper to extract fantasy football stats and projections from Reddit and ESPN.
- Built a data pipeline to normalize and compare 10,000+ player records across weeks and seasons.
- Automated weekly email reports via SMTP containing the Top 5 fantasy producers per position and performance trends, delivered to league members.

## TECHNICAL SKILLS

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**Languages:** Python, Java, C++, SQL, JavaScript, Swift

**Frameworks/Libraries:** React, Node.js, Firebase, Pandas

**Tools:** Git, Excel