

Joseph R.E. Babbitt

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EDUCATION

Binghamton University, State University of New York, College of Engineering and Applied Science

Bachelor of Science - Computer Science

August 2019 - May 2023

Graduation Marshall | Upsilon Pi Epsilon: Inducted Fall 2021 | Dean's List | GPA: 3.34

TECHNICAL SKILLS

Languages: Python, Javascript, Java, C++, C, MIPS Assembly, Scheme, LabVIEW

Experience In: Agile development, AWS, Blockchain technologies, Complex codebases, Chrome Extension development, DPKG, ES6, Full-stack development, Git, IBM MQ, Node.JS, OAuth2, Open source contribution, API creation & usage, React, Robotics, Telephony systems, UI/UX, Unit testing, Web design, WebRTC, WebSockets

PROFESSIONAL EXPERIENCE

Amazon, SDE Intern | Seattle, WA

May 2022 - August 2022

- Worked within Devices experimentation platform team developing full stack monitoring tools to ease on-call investigations
- Delivered beyond requirements while minimizing storage impact, providing more utility at a fraction of the originally slated cost
- Worked with mentor, team, and stakeholders to refine design, taking ownership of both technical and aesthetic design of the project

Fairly, Tech Lead | New York, NY

March 2020 - May 2021

- Single-handedly designed and implemented MVP netting 6 figures in sales in under a month
- Worked with co-founders closely to mold a constantly changing vision, iterating and creating products to destabilize a \$600B industry
- Wrote and maintained a complex codebase, working in isolation as well as with/managing a remote team

Bloomberg, Engineering Intern | New York, NY & London, UK / Remote (due to COVID-19)

Summer 2017 - 2021

- Team: Security Operations 2021
 - Reimagined physical visitor identification system from scratch with a full redesign of both front-end editor and backend systems
 - Resulted in removal of 6 extraneous services and decreased latency of over 45 seconds (70%) in real-world use
- Team: Communication Channels 2020
 - Implemented threaded replies in Bloomberg's email client with an eye towards system architecture efficiency and UX standards
 - Operated across teams and technologies to create a new data pipeline, tying legacy and new data sources together
- Team: Internal Applications 2019
 - Rebuilt an in-house telephony service interface application
 - Responsible for UI/UX design in addition to middleware and frontend development
- Team: Communication Channels 2018
 - Introduced two client-side features in the Bloomberg Terminal's proprietary instant messaging platform
 - Improved image delivery testing suite, improving performance by over 25%
- Team: Fixed Income 2017
 - Realized a financial validation layer to increase development productivity within a small team
 - Saved thousands in development costs by in-housing costly post-trade workflows

Binghamton Sound Staging and Lighting, Technical Director | Binghamton, NY

October 2019 - May 2023

- Spearheaded a custom booking and employee management software as Assistant Manager, integral to COVID-19 response
- Responsible for university's largest concerts and music festivals, coordinating among numerous contractors and over 100 employees
- Most Senior Lighting and Sound Engineer tasked with planning and execution of various events on campus

PROJECTS

S.L.U.G.S. | Binghamton, NY

April 2020 - Present

- Developed and currently maintain custom management software for Binghamton Sound, Staging, and Lighting
- Centralized sporadic employee scheduling, employee management, and manager workflows
- Strategized closely with financial department in addition to university administrators to tailor functionality, cutting down on unnecessary cross-company communication

Soup's On | New York, NY

May 2019

- Awarded 2nd place overall at TeenHacks inaugural hackathon
- Created a full-stack SAAS application in a team of two using complex algorithms to setup lunch groups at comfort restaurants and new finds alike

Walk-To | New York, NY

May 2017

- Awarded best mobile app at Stuyhacks IV for re-imaging commuting transit apps with a location-based decision-making app

COMMUNITY ACTIVITIES

LUMA, Production Assistant | Binghamton, NY

September 2021 & September 2022

- Worked with local talent, Panasonic engineers, AV professionals, and artists worldwide to transform 78 Collier St & 95 Court St into a 3D canvas using projection mapping
- Utilized industry software, WATCHOUT to align a 10-projector setup with seamless blends