Marc Bacvanski

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Education

Northeastern University   Aug 2019 – May 2023
Khoury College of Computer Sciences   **GPA: 3.8**
Candidate for Bachelor of Sciences in Computer Science
- **Relevant Coursework:** Algorithms and Data Structures, Math of Data Models, Computer Systems, Embedded Design, OOD, Foundations of Cybersecurity, Bostonography: Data science course analyzing Boston's data
- **Honors and Awards:** Dean's scholarship & Dean's list 2019-present, 1st place at Northeastern Interdisciplinary Case Competition, 1st place at Husky Health Innovation Challenge
- **Activities:** Competitive programming club, TAMID finance and consulting group, Leadership board at Northeastern Association for Computing Machinery (ACM), Revolve hip hop dance team

Certifications
- **Deep Learning (5 course series), 2020:** Specialization certificate for Deep Learning on Coursera by deeplearning.ai, credential UW7XJ2WBD4A2. CNNs, RNNs, sequence models, and deep learning strategies.
- **CS-191x: Quantum Mechanics and Quantum Computation, 2020:** EdX course from UC BerkeleyX, credential 18fb330fda7e47ec834dafaa682a5a0b. Grover's algorithm, Shor's algorithm, Hamiltonians, spin qubits.
- **Qiskit Certificate of Quantum Excellence, 2020:** certificate from IBM Qiskit Global Summer School 2020.

Software Skills

Languages: Go, Java, JavaScript & Node.js, Python (also familiar with C++, C#, C, R, bash)
Deep Learning: Convolutional neural networks, Recurrent neural networks, Keras, Tensorflow, Pandas, scikit-learn
Technologies: GraphQL, MongoDB, Firebase / Firestore, Algolia, ElasticSearch, Redis, Cassandra, Linux, Git
Cloud: Microservices, Google Cloud, AWS, Heroku, REST, Internet of Things
Quantum Computing: Qiskit, Grover's, Shor's, Hamiltonians, spin qubits

Work Experience

Lead Developer – Deuce Technologies. Los Altos, California   Jun 2018 - Aug 2019
- **Directed software design, architecture, and development** of a social network for NCAA athletes
- **Managed a team of 5 software developers** to deliver cross-platform functionality on critical business deadlines
- **Pioneered development of an alpha prototype** and led the company to be accepted into a startup accelerator
- Worked with GraphQL, Node.js, Google Cloud Functions, Algolia, Firebase/Firestore, and React Native

Software Development Intern – Zizmos. Menlo Park, California   Jun 2016 - Feb 2017
- **Designed cloud-based, automated stress and scalability testing suites** to simulate component failures
- **Collaborated with a worldwide team to develop an Android app** for earthquake early warning and visualization
- **Developed simulation toolkit** for generating real-time earthquake data from thousands of sensors
- Worked with Android/Java, MongoDB, RabbitMQ, and Node.js

Projects

Venture Analyst – Northeastern's IDEA Venture Accelerator   Jan 2020 - Present
- **Conducts holistic business analysis** of ventures applying for bimonthly $10k gap fund
- **Mentors and advises idea-phase ventures**, focusing on ideation and customer discovery

Founder, Lead Hackathon Organizer – MVHacks   Nov 2015 - May 2019
- **Planned event logistics, led outreach, secured $22,000 of financial sponsorships** (Google, Microsoft, LinkedIn, Ford Research Labs, Cisco, and more)
- **Led organizing team** for MVHacks 2.0, a 12-hour, 150+ student hackathon in Mountain View, California