Aaron Bailey Berro

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EDUCATION

B.S.E in Computer Science   **University of Michigan, College of Engineering**   **Expected April 2017**

- Current GPA: 3.7 / 4.0
- Academic Honors: Deans List, University Honors, William J. Branstrom Freshman Prize (Top 5% of class)
- Eta Kappa Nu, EECS Honor Society Member
- Gamma Sigma Alpha, Greek Honor Society Member
- Relevant Coursework: Programming and Data Structures, Data Structures and Algorithms, Introduction to Computer Organization, Web Database and Information Systems, Computer Security, Foundations of Computer Science, Intro to Autonomous Robotics, Operating Systems, Database Management Systems

EMPLOYMENT

Software Engineering Intern   **Thomson Reuters Elite**   **June 2016 – August 2016**

- Implemented the Global Search service prototype and corresponding unit test suite, leveraging Elasticsearch and .NET Core framework to show the feasibility of such a feature in the next version of Thomson Reuters' 3E product
- Created a new, faster version of Conflict Analysis for evaluating potential legal clients/issues by leveraging Azure Search and .NET Core and dividing API requests, reducing unnecessary overhead and increasing speed by over 1000%
- Served as Scrum Master for 10-person team, leading daily standups and weekly sprint planning meetings

Software Development Intern   **GetSmarter.co.za**   **June 2015 – July 2015**

- Conducted research on the way students interact with GetSmarter's virtual learning environment, prioritizing students' ability to perform administrative tasks over their ability to watch lectures and consume other course materials
- Created Ruby on Rails POC of a mobile first web app that consumed the Moodle API to allow students to see their upcoming assignments, grades, and course announcements to illustrate the viability of a future mobile project

ADDITIONAL EXPERIENCES

Wellness Director, MHacks 8   **MHacks**   **April 2015 - Present**

- Improved wellbeing of attendees by organizing healthy breakouts throughout the event such as Yoga and Mindfulness to promote both physical activity and de-stressing, as well as facilitating healthier meals and snacks
- Increase wellness hacks submitted by bolstering related hardware and securing prizes for top wellness hacks

Logistics Coordinator, MHacks: Refactor

- Oversaw 15 member logistics team to plan, coordinate, and execute the entirety of MHacks: Refactor, a more focused and intimate hackathon hosting 500 hackers yet still producing almost 150 hacks

Core Team Member, MHacks 6

- Helped with various aspects of MHacks 6, which welcomed 1350 students and generated nearly 300 submissions

President   **Alpha Epsilon Pi Fraternity**   **November 2014 – December 2015**

- Oversaw all operations of 175-member chapter including finances, recruitment and event planning, and maintained relationships with school administration and national organization
- Managed and restructured $300,000 budget and allocated resources to facilitate repayment of long standing debts while ensuring that all members were represented in housing, social and philanthropic events
- Administered planning for large-scale philanthropic event consisting of 1000+ attendees and revenue of $30,000 to support chapter's charitable efforts

PROJECTS

- HouseMom, a comprehensive fraternity organizer built with Ruby on Rails allowing members to order apparel and pay dues using Stripe API integration, see event calendar, create house fixit requests, and submit receipts for reimbursement
- Simulated Travelling Salesman Problem (C++) with modes for determining optimal route, quickly estimating nearly optimal route, and creating a minimum spanning tree leveraging a branch and bound algorithm and 2-opt heuristic
- Created dynamic online photo album (Python/Flask) with a SQL backend allowing users to login, share albums, like other users' photos, and save favorites
- Wrote Python/Selenium script used with Cron to automatically check and pay for parking tickets in Ann Arbor

TECHNICAL SKILLS

- Languages: C/C++ (proficient), C# (proficient), Ruby (proficient), Python (proficient), HTML/CSS (proficient), JavaScript (prior experience), jQuery (basic)

ADDITIONAL

- Co-founder of LineHop, a business selling line-skip passes via iOS app for multiple bars in the Midwest