Daniel Kim

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EDUCATION

Yale University, New Haven, CT   Aug 2020 – Present
Prospective Bachelor of Science in Computer Science   Unweighted GPA: 3.93/4.00
Relevant Coursework: Data Structures and Programming Techniques, Artificial Intelligence, Systems Programming and Computer Organization, Vector Calculus and Linear Algebra

Bergen County Academies, Hackensack, NJ   Sept 2016 – June 2020
Academy for Technology & Computer Science   Unweighted GPA: 3.99/4.00
Awards and Honors: USA Computing Olympiad Gold Division, American Computer Science League (ACSL) 2020 Finals 2nd Place Senior Division and 1st Place in New Jersey, 4x American Invitational Mathematics Examination Qualifier (highest score 10) via top 2.5%/5% score on AMC 10/12, Individual Silver & Gold Medals at World Mathematics Team Championships in South Korea & Bulgaria

EXPERIENCE

Yale Computer Society, *Full Stack Developer*, New Haven, CT   Nov 2020 – Present
- Developed a web-based platform for the Yale Entrepreneurial Society Internship Program (internships.yesatyale.org) to manage 180+ internship postings, 600+ student applications, and 140+ startups
- Led frontend development and design of application management system to help a team of 15+ recruiters conduct application reviewal using ReactJS and frameworks such as Redux
- Used services including Amazon CloudFront and CodePipeline to deploy websites and set up continuous delivery

Rutgers Discovery Informatics Institute, *Research Intern*, Piscataway, NJ   Sept 2019 – May 2020
- Designed and implemented API to deploy operating systems and customize experiments on reserved remote nodes using Python library Execo
- Collected data on network latency using ping to identify optimal environments for experimental usage
- Automated deployment of an IoT Edge Framework using API to reduce installation time by 30%
- Analyzed large datasets of taxi trip reports via batch processing (Matplotlib) and stream processing (Apache Flink)

Gauss Academy of Mathematical Education, *Coding Workshop Instructor*, Springfield, NJ   Mar 2020 – Apr 2020
- Taught Python GUI programming with libraries Turtle and Tkinter to 20+ middle school students 3 days/week
- Designed and planned curriculum and course materials and debugged students' programs

ACTIVITIES & LEADERSHIP

Bergen County Academies Math Team, *Webmaster*, Hackensack, NJ   Sept 2019 – Jun 2020
- Developed website with 40,000+ pageviews to host lecture notes, past contest files, and preparatory resources, using Materialize for responsive design and Firebase as backend for admin authentication
- Facilitated communication among coaches, lecturers, and members via dynamic updates and blog posts, leading to 70% increase in top 2.5%/5% scorers in the American Mathematics Competitions (AMC) 10/12

8th Annual Joe Holbrook Memorial Math Competition, Hackensack, NJ   Jun 2019 – Oct 2019
Webmaster, Volunteer Leader, and Problem Committee Member
- Took initiative to build and maintain a new website and actively promote the event on social media
- Coordinated 20+ volunteers to help proctor 400+ participants at an annual middle school math contest
- Invented and proposed 50+ math problems; rated hundreds by quality and difficulty

PUBLICATION

***Advanced Precalculus*,** *Textbook Author* (ISBN-13: 978-0578479439)   Published Mar 2019
- Authored and published a 350-page textbook on proof-based precalculus and introductory calculus concepts
- Adapted as official textbook by the teacher for the course "Advanced Precalculus with Discrete Topics"
- Presented work to visiting professors and graduate students as part of introduction to school math curriculum

TECHNICAL SKILLS

C++, C, Python, Java, HTML, CSS, JavaScript, ReactJS, Redux, jQuery, Matplotlib, NumPy, Git, LaTeX, Adobe Photoshop, Microsoft Office