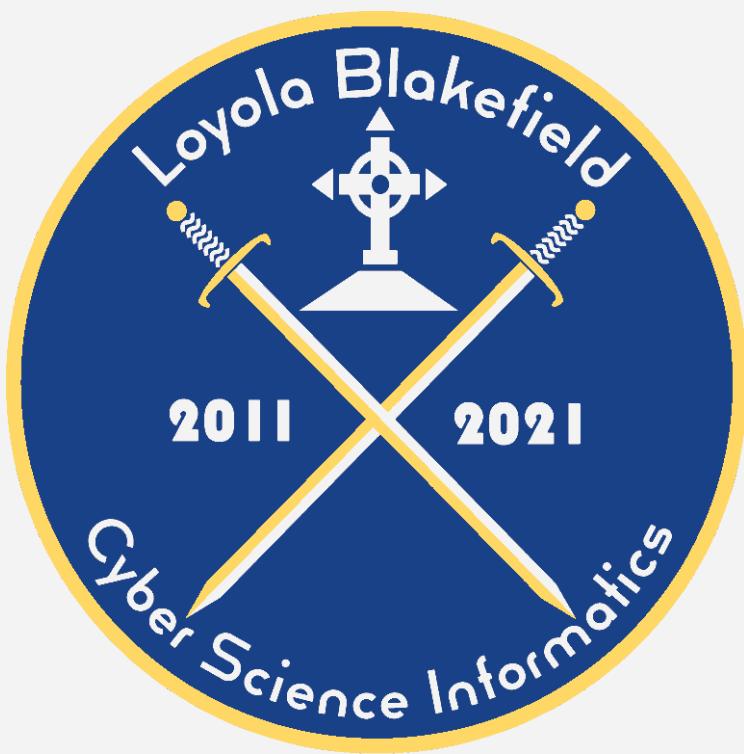


LOYOLA BLAKEFIELD CYBER SECURITY

SPRING 2022 NEWSLETTER



Foreword

LBCSI concluded its 10th year with a large array of events and announcements. We hosted LBC2, social events for our students, and continued our outreach programming. We are delighted to share with you what happened over these past few months, highlighting our students' hard work and wishing our seniors well.

LBC2 -Loyola Blakefield Cyber Challenge

On March 26, 2022, we held our 5th annual LBC2 event, designed to teach and test the skills of beginner and seasoned teenage cybersecurity enthusiasts. Boasting over 40 challenges in both the beginner and advanced CTF (Capture the Flag) section and 10 Comtech image-based challenges, LBC2 offers a variety of challenges for competitors interested in expanding their skills.

Development

LBCSI's Product Development team, led by Zachary Shrader '22 and Jack Wachter '24, started in August to create challenges for both beginner and advanced competitors. The challenges demonstrated an array of cyber security challenges and mimicked real-life vulnerabilities. Additionally, they utilized realistic scenarios as an engaging way to practice applying skills and critical thinking. This year's challenge's included concepts in web exploitation, cryptology, forensics, programming, and network analysis. Although primarily a learning experience for competitors, the competition acted as a positive learning experience for our Product Development Team. Throughout the rigorous process of developing challenges, the team learned valuable cybersecurity and teamwork skills.

Challenges

This year's LBC2 competition was split into two sections: the CTF round and the Comtech image-based round. The Capture the Flag round consisted of a series of challenges on cybersecurity subjects such as reverse engineering, web

exploitation, and programming. Each challenge is in the form of a question and answer format. The competitor is given a clue and must procure an answer using their cyber security knowledge. The Comtech round had 5 or 10 images for the beginner and the advanced divisions, respectively. Each image tested competitors on skills such as securing systems, utilizing exploitation tools, and editing program code. We would like to thank Comtech for the amazing tools and support they provided and hope to feature their products again in the future.

Competition

This year we were happy to be back on campus after last year's online competition. In total, this year's LBC2 Challenge sported 150 competitors from around the country. The competition lasted 6 hours, from 9 AM to 3 PM. At 9:30, the Comtech Round began, spanning 2 hours and 30 minutes until 12:00, when Chick-fil-a was served. Finally, from 12:30 to 2:30 the CTF round took place, and scores were tallied by 3:00. Intermittently during the competition, LBCSI's Justin Tony '22 held raffles for various tech items, such as Raspberry Pi's, USB Drives, and an Oculus Quest.



Sponsors

This year's LBC2 competition would not have been possible without the continued support of our generous sponsors. We would like to thank the Federal Business Council, the Governor's Workforce Development Board, the Edward St. John Foundation, Skyline Technology Solutions, HCGI, GS Consulting, Whalen Properties, General Dynamics, Point3, Juniper, and CyberStronger. In particular, we would like to thank Juniper for providing a demonstration of their Marvis product, and Comtech for access to their CyberStronger product.



Social Media Outreach

On April 6, 2022, Aidan Sachs '24 and Andrew Hill '23 presented to the 6th, 7th and 8th graders at Saint Margaret School on proper Social Media and Internet etiquette. They went over topics such as cyberbullying, online presence,

and time management on apps such as Snapchat, Instagram, and TikTok. It was great to see the students' enthusiastic responses, in no small part due to Andrew and Aidan's great presentation. If you know of a school that would benefit from a digital awareness presentation (virtual or in-person), please reach out to Mr. Stephen Morrill or our Field Operations Leaders, Teddy Marine '24 and Charlie Hale '23. We would love to visit new schools and meet new students!



Blakehurst Cyber Awareness Event

On May 10th, Charlie Hale '23 and Mr. Morrill were invited to spend time with our neighbors, the Blakehurst Retirement Community, in order to spread cyber awareness to those most vulnerable to cyber attacks. During Loyola's

open house, two of the residents toured the cyber lab in St. Ignatius Hall and were interested in what they heard. They graciously invited members of our team to share our message at Blakehurst. We shared our cyber journey over the past ten years along with covering the top digital scams that target senior citizens.



LBCSI Banquet

Our annual end of the year banquet commenced on April 28th with over 300 students, parents, and sponsors in attendance. We kicked off the night with the announcement of this year's Antoine Kallab '17 Cyber Science Scholarship awardees, Anshul Chelapurath '23, and Charlie Hale '23. A new Blue Team

Leader scholarship was introduced this year by the Woolford Family Foundation. Mr. Dave Woolford was on hand to present the inaugural award to Ben Scholtes '23. Next, Patrick Lagator '15, Peter DuBois and Andy Flood gave their comments on LBCSI and the club's direction; We would like to thank Mr. Lagator, Mr. DuBois, and Mr. Flood for presenting. We would also like to offer a special thank you to Mr. Flood for spending his time teaching Biometrics to our students this year.



Speakers

This Spring, our Dons had the distinct pleasure of welcoming speakers from Stanley Black & Decker, Inc. and Carbon Black. Our speakers included Peter DuBois (Parent '26, '28, CIO GTS and Global Operations at Stanley Black and Decker, Inc.), Julie Fitton (Vice President of Digital Product Security for Stanley

Black & Decker) and David Balcar (Security Strategist at VMware Carbon Black). Each shared their own invaluable lessons which have been learned throughout their time at the helm of such important companies. With over six billion people interacting with the internet everyday, our Dons have a headstart in protecting our cyber space thanks to these speakers.

If you or anyone you know would have interest in speaking to and educating middle and high school cyber students, please contact us so we can line up even more great speakers for our series.



Casino Night

During the eventful evening in Wheeler Lounge, our Dons hit the tables during our second annual Casino Night! Spearheaded by Mentor Leads Justin Tony '22 and Rocky Meadows '23, games such as BlackJack, Poker, and 50/50 were played to much success. After the chips were tallied, Casey Nazelrod '25

won it all and took the prize of a \$25 gift card. Other small prizes included candy and stuffed animals. The night was full of amazing food and memories that will last a lifetime. We are happy to announce that plans for next year have already been discussed. We hope to see everyone there again!



Alumni Spotlight: Colin Bowes '18

Colin Bowes '18 was a dedicated four year member of LBCSI. During Colin's time at Loyola, he and his team worked at the highest level, reaching the CyberPatriot National Finals during his senior year. His hard work at Loyola

prepared him well to head off to the University of South Carolina. Through his experiences in LBCSI, he decided to continue with cyber and major in Computer Science. As Colin graduates from college and reflects on his time at Loyola, he remembered the significant impact the program had on him. Since Colin's graduation from Loyola, the Bowes family has tracked the accomplishments of LBCSI and wanted to find a way to enable more students to feel the same impact. The Bowes family foundation and Colin recently made a significant gift to LBCSI. We are grateful and proud of our alumni for continuing to support our Cyber Dons during their continued hard work over the past 10 years.



Thank You Sponsors

On behalf of the entire LBCSI program, we would like to thank all of our partners who have graciously sponsored us. We are grateful for your continued

support and guidance while getting back on track after these past two years, which has truly been a test for all. We want to specifically thank our cornerstone partners: The Edward St. John Foundation, T. Rowe Price, and Point3. A special thank you goes out to the Edward St. John Foundation and Ms. Sharon Akers, the foundation's president. We appreciate the continued interest in the development of our cyber students, and we look forward to continuing our work with these sponsors in the future.

Incoming Leadership Team

With the end of the academic year fast approaching, we would like to announce our 2022-23 leadership team:

Field Operations:

Charlie Hale '23

Teddy Marine '24

Product Development:

Anshul Chelapurath '23

Jack Wachter '24

Training Leads:

Nick Jacob '23 - Cisco

Casey Nazelrod '25 - Linux

Ben Scholtes '23 - Windows

Mentor Leads:

Noah Morraye '23

Andrew Hill '23

Lab Managers:

Brendan McLaughlin '23

James Keller '24

Henry Craig '24

With a very healthy mix of Sophomores, Juniors, and Seniors, we are extremely excited to see what this group has in store for next year. The new team will continue to expand upon already groundbreaking progress started this year,

including: expanding LBC2, our product development, and growing the Loyola Community as a whole.

Graduating Seniors

We would like to congratulate all of LBCSI's graduating seniors who have worked with us so diligently over the past years. The Class of 2022 is filled with many fearless leaders, great mentors, and we look forward to seeing what these guys have in store as they head off to many great colleges and universities. Below, we have highlighted where our cyber seniors will be attending in the fall.



**Massachusetts
Institute of
Technology**



Christian Arthur	University of Maryland at College Park
Dylan Baer	University of Maryland at College Park
Maurice Barksdale	University of Maryland at College Park
Matthew Cammarata	William & Mary
Ryan Clancy	Rochester Institute of Technology
Ian Cumming	University of Nebraska-Lincoln
Conner Dorsey	University of Baltimore
Chris Fleschner	Villanova University
Ethan Floyd	West Virginia University
Owen Gambo	Drexel University
Ethan Green	Anderson University
Kaine Griffen	Rochester Institute of Technology
Josh Gwin	University of Notre Dame
Zachary Hopp	Drexel University
Tony Liberatore	University of Maryland at College Park
Thomas McNulty	St. Joseph's University
Joseph O'Neill	Penn State University
Alex Schumann	University of Notre Dame
Baba Shonaiya	Massachusetts Institute of Technology
Zach Shrader	Rochester Institute of Technology
Luke Smith	University of Maryland at College Park
Andrew Terry	University of Central Florida
Justin Tony	University of Maryland, Baltimore County
Matthew Welling	University of Maryland at College Park

Thank you all for taking the time to read this year's Spring Newsletter! This is the first of many future newsletters written mostly by our newest Field Operations Leads, Charlie Hale '23 and Teddy Marine '24. Our current Field Operations team is signing off with this newsletter, but we are excited to see what our young guys have in store! This is a very exciting time of year for our program as we make an eventful and innovative transition to the next school year. We thank all of you who have followed our success through the school year, and we hope to stay in touch in the near future!

We hope you are all doing well and staying healthy.

Thanks again,

Chris Fleschner '22,

Tony Liberatore '22,

Charlie Hale '23,

Teddy Marine '24

Mr. Stephen Morrill,

The entirety of Loyola Blakefield's Cyber Science Initiative

