

Tech Initiative Update slides



Preparing people to lead extraordinary lives

Update on Technology Initiative

Our Goal:

To become an important source of technology education for

- People seeking to move into a technology career
- Working professionals seeking additional skills and credentials

Our Approach:

Offer training in a variety of non-credit and credit bearing formats that addresses evolving technology topics and skill sets in formats that meet the scheduling needs of our target audience

Update on Technology Initiative

Current Status

We are developing:

- Curriculum
- Infrastructure
- Effective Marketing Campaign

Update on Technology Initiative

Curriculum

- ❖ Stackable graduate certificates in Business and Computer Science
- ❖ Stackable undergraduate certificates in SCPS
- ❖ Non-credit professional training in SCPS
- ❖ Next up: Bootcamps

Infrastructure

- ❖ New web presence (roll-out in late October)
- ❖ New B2B corporate marketing unit
- ❖ Working professional scheduling, plus expanded on-line

Update on Technology Initiative

Effective Marketing Campaign

- ❖ In development, with funds from Enrollment Management and special fund (“AIT”)
- ❖ Brand and program-specific marketing

COMPUTER SCIENCE PROGRAM ADVISORY COUNCIL (CSPAC) MEETING

September 25, 2019



MENTOR/MENTEE GUIDANCE

- Meetings from September 2019 – May 2020
 - 8 - 9 meetings
 - Face-to-face, video conference, site visit, professional event
 - Duration (1 hour meeting, longer for site/shadow visit or professional event)
- Suggested Phases
 - Beginning (3): Get to know each other, build trust, set expectations
 - Middle (4): Most productive, mutual trust and sharing of concerns, test/challenge ideas, strategize about career options and planning
 - Wrap-up (2): Formal relationship winds down, determine future contact
- Suggested Checkpoints
 - What's working well? What needs to be changed?
 - How do we feel about the structure, format, activities of our pairing?
 - What other topics/activities may be helpful that we haven't tried?
- Mid-Point and End of Year Survey
- What to do if there is a mismatch?
 - Contact Bob Yacobellis or Susan Malisch

GUIDELINES FOR MENTEES

- Own the relationship. Schedule the meetings.
 - Share an agenda.
 - Summarize the conversation and any actions; thank them for their time.
 - Schedule the next meeting.
- Be reliable, respectful, grateful.
 - Mentors are busy. Use their time wisely. They may have to reschedule from time-to-time to meet business needs.
 - Things come up. Don't be a no-show. Reschedule as a last resort.
- Build your “diary” and reflection document.
 - Use your summaries.
 - Add your reflections.

GUIDELINES FOR MENTORS

- Engage with your mentee
 - Be a resource.
 - Share your personal and professional experiences and advice.
 - You don't have to have all the answers.
 - Ask questions. Listen.
- Some Characteristics of Good Mentoring Relationships

(From "*The Mentee's Guide: Making Mentoring Work for You*", by Lois J. Zachary)

 - Reciprocity
 - Learning
 - Relationship
 - Partnership
 - Collaboration
 - Mutually defined goals

SUGGESTED AGENDA FOR TODAY'S INITIAL MEETING

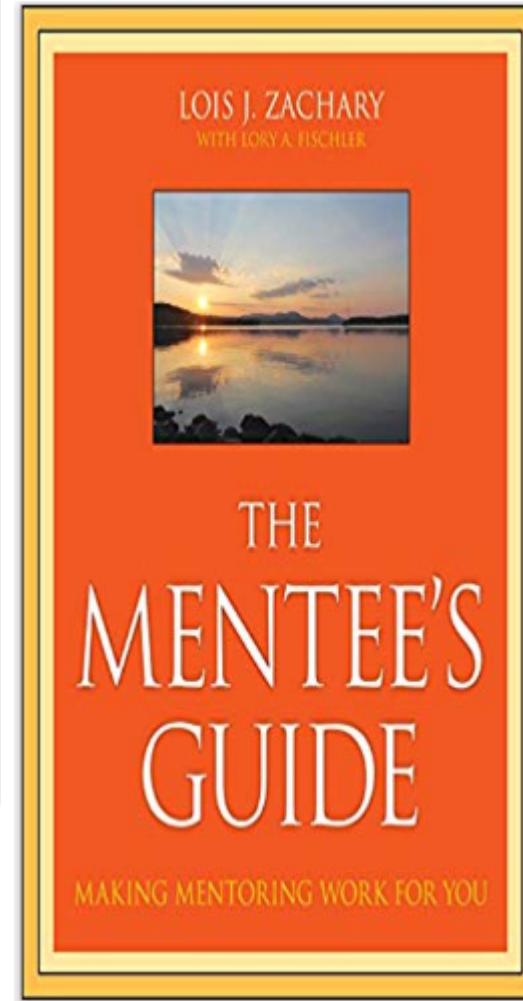
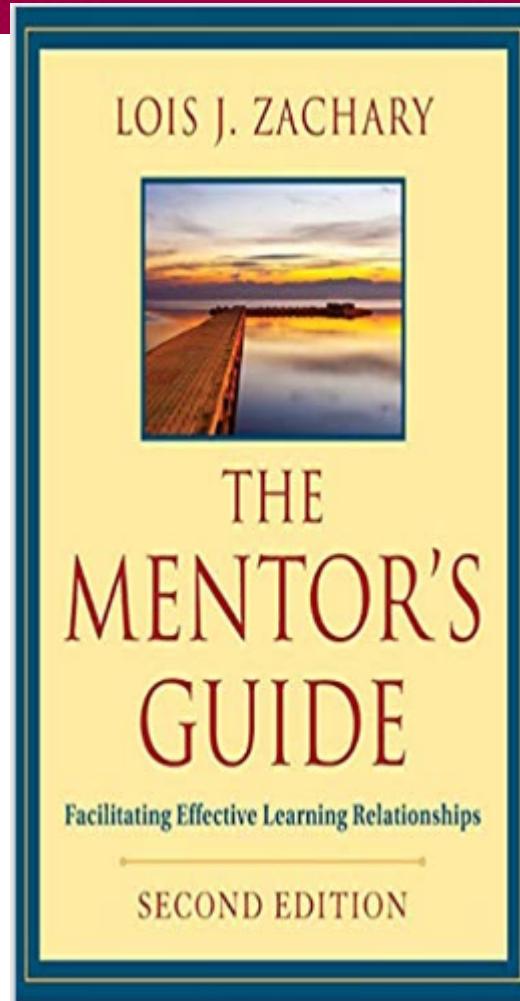
- Introductions
 - Share your personal/academic/professional story
 - Share some hobbies and interests
 - Define your most important goals (10 min)
 - Share preferred contact information (5 min)
 - Schedule next meeting date/time/location (5 min)
 - Discuss possible agenda/topics if time (5 min)
- (Mentees will be excused at the end of this session)
-] (5 min)

MENTOR/MENTEE PILOT MATCHING

CS PAC Mentor Name	Mentee Name	Level
Alisa Swann	Nazifa Safdary	Junior IT
Matthew Mead	Jack Broncato	Senior CS
Perry Moutzouros	Valerie Boudas	Senior CS
Guy Bevente	Jean-Luc Putter	Senior SE; International Studies
Paul Edlund	Andrew Littleton	Senior Cyber
Narciso Albarracin	Kanu Madhok	Junior IT
Mark Forbes	Andrew Lake	Senior CS

RESOURCES

- Lois J. Zachary –
The Mentee's Guide
- Lois J. Zachary –
The Mentor's Guide
- Julie Starr –
The Mentoring Manual



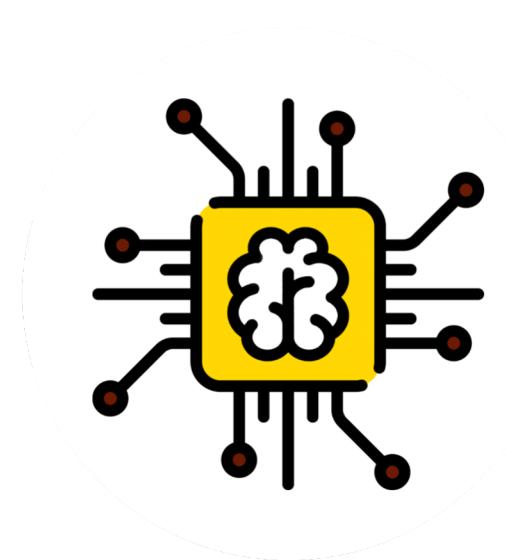
"A clear, pragmatic and accessible guide for mentors."
Professor David Clutterbuck, author, speaker, and co-founder
of the European Mentoring and Coaching Council

**The
Mentoring
Manual**



Your step by step guide
to being a better mentor

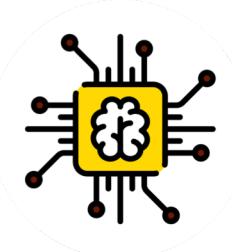
JULIE STARR



COMPUTER SCIENCE STUDENT ADVISORY COUNCIL

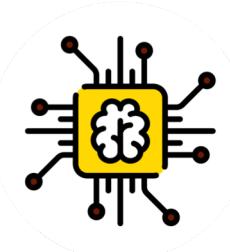
CS-STAC Purpose

- CS-STAC is a representative body of students from undergraduate and graduate majors within the department convened to provide suggestions, reactions, insights, and opinions concerning department initiatives and services



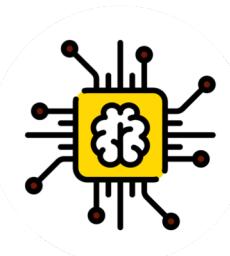
Goals and Responsibilities

- Improving the Computer Science department from within
- Provide student perspectives on issues and activities under consideration by the administrative, academic, and service units within the department
- Gather student feedback when requested
- Show visible presence at department events, symposia, and talks



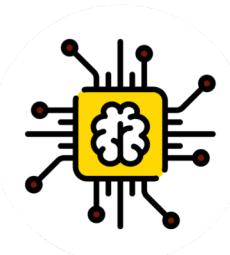
Accomplishments

- Internal
 - Created CS-STAC website and Slack bots
 - Developing growth and familiarity within the council
 - Meeting regularly (~once/month)
 - Weekly discussions and regular communication
- External
 - Conducted research on the tutoring services offered by CS department
 - Discussed potential improvements with CS faculty
 - Implementing improvements
 - Growing presence on Loyola's campus
 - Bringing awareness to our council



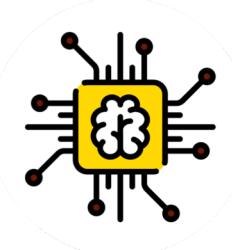
CS-STAC 2019-2020 Focus

- Create workshops focused around subjects students may find interesting outside of the classroom
 - Workshops on full stack development, ML, Git, Linux, data visualization, Agile/Scrum, pointers...
 - Partnering with local businesses and engineers
- Develop a Computer Science Student Hub Blog
 - Student insight/testimonials
 - Classes, research, experience
 - Current events
 - Networking opportunities (events, internships, jobs, etc.)
 - Tutoring services
 - Resources



Making a Presence with CS-STAC

- Attending networking events around Chicago
- Connecting with professionals in the industry
- Making our name known at Loyola





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LOYOLA UNIVERSITY CHICAGO

Goals

- To provide an opportunity for young girls to learn to code as well as work to close the gender gap in computer science and related fields.
- To inspire our students to try new things and expand their horizons in ways they may not have previously known about.
- To build a network of support for both students and volunteers.

Student Involvement

- Volunteers
 - Mentors and teachers
- Student Fellows
 - Leadership roles
 - Paid positions using grant funding

Jay Wengrow

2x Loyola Alum

CEO, Actualize







LOYOLA
UNIVERSITY CHICAGO



- Sandbox Industries
- Doggyloot
- Apartments.com





A C T U A L I Z E





ACTUALIZE

Actualize is a part-time web development bootcamp and apprenticeship with a strong commitment to educational best practices and pedagogy. Starting with four months of in-class training followed by guaranteed placement in our web development agency, The Difference Engine, we empower Actualize students to develop the mindset and skills to transition to full-time software engineering and launch rewarding lives and careers.



• www.actualize.co

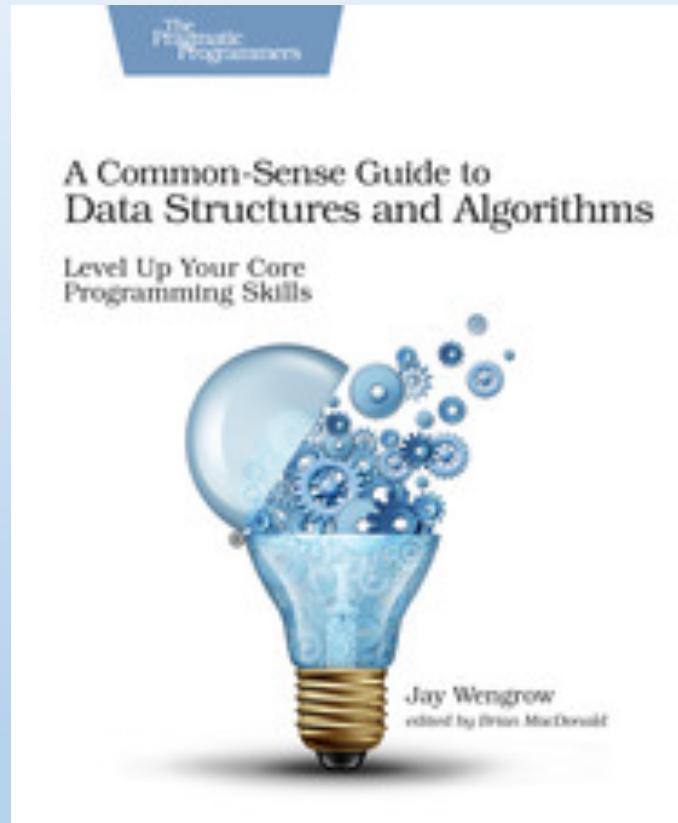


• hello@actualize.co

{ Anyone Can
Learn To Code







Opportunities & Challenges

Competitive Landscape

Questions?

Highlights

Department of Computer Science

2018-2019



Department by Numbers (2018)

- Full-time Faculty 14 FTE
- Undergraduate majors/minors: 400
- Graduate students: 80
- Number of Graduates
 - (i) BS: 76
 - (ii) MS: 45

Faculty Highlights



Published Research Areas

Software and Systems, Big data, Security and Privacy, Bioinformatics, Machine Learning, and Computer Science Education.

- ❖ 37 journal and conference publications
- ❖ 25 poster presentations and 6 invited talks

Research Grants

- New Funding: \$260K
- Continuing Funding: \$3.4 million
- Funding Agencies: NSF, NIH, Kimberly Clark.

Student Engagement and Highlights



- **Student research:** ~ 60% of the research publications co-authored with students.
- **Internships:** ~ 50 internships : CNA, Bosch, SEC, NSA, and startups. .
- **Student Club Activities:** Student Advisory Council, Girls Who Code, Don't Panic, ACM, Cybersecurity, and Data Analytics.
- **Career Preparation:** Students are being assisted by Sammy Corbett in addition to Loyola Career Services.

Programs and People



- BS Data Science (jointly with Statistics) – fall 2019
- Three post-bac Certificate programs
- Dual credit offerings in two high schools.
- Dr. Eric Chan Tin (Cybersecurity), fall 2018
- Dr. Neil Klingensmith (IoT, architecture, operating systems), fall 2019.
- Two new hires in fall 2020 (Machine learning, Systems)

Undergraduate Curriculum



Major Revisions in all undergraduate majors

1. Computer Science, Software Engineering, Cybersecurity will require 61 credits for graduation
2. Information Technology will require 50 credits.
3. Changes to Computer Crime and Forensics minor, Computer Science minor.
4. Changes to Bioinformatics, Data Science majors.

2020 plans

- Marketing current programs
- Graduate curriculum revisions
- New Certificate Programs
- New faculty hires
- Strengthening student engagement

SCPS UPDATES – UDAYAN DAS

udas@luc.edu

- New Certificate Programs (3 courses)
 - Fall 2019: Intro to Data Science Certificate
 - Coursework in Python, Python Data Toolkits, Databases & SQL, Data Processing and Visualization.
 - Spring 2020: Web Design & Development (WordPress)
 - Coursework in HTML/CSS, Design, Responsive Design, Content Management & Hosting, JavaScript, React
 - Awaiting Approval
 - Under development for Fall 2020: User Experience Design

SCPS UPDATES – UDAYAN DAS

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- Non-Credit Workshops Fall/Spring
 - Cyber Incident Response Management
 - Che Bhatia, VP Cyber Resilience, Stroz Freidberg
 - December 10 & 11, 2019; March 23 & 24, 2020
 - Agile Software Development
 - Jessica Zuniga, Senior Agile Project Manager, Enova International
 - January 23 & 24, 2020; April 23 & 24, 2020
 - Cloud Security Architecture
 - Ammar Ahmed, Principal Architect, Cloud Technology Partners
 - Saturdays: February 22 & 29, 2020; June 6 & 13, 2020

SCPS UPDATES – UDAYAN DAS

udas@luc.edu

- Non-Credit Workshops Summer/Fall 2020
 - Developing Workshops based on PAC feedback:
 - Infrastructure-as-code
 - Design Thinking (*need support*)
 - Technology Ethics
 - Please refer Workshop Topics/Ideas, Potential Instructors/Presenters, other feedback to SCPS (Udayan)
 - SCPS subcommittee meeting in the Spring can be dedicated to Workshops

CONCLUDING REMARKS

- Thank you Optum!!